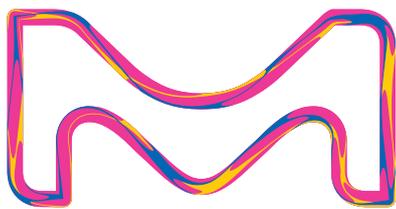


默克生物标志物 检测解决方案

Vol. 1 2022

多重、灵敏、稳定
想您所想，助您见所未见

- MILLIPLEX® 蛋白多因子检测平台
- SMC™ 飞摩尔级超敏单分子免疫检测平台
- ELISA 酶联免疫检测技术



在美国和加拿大，默克的生命科学业务
使用MilliporeSigma的名称

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

目录

- 3 默克免疫检测平台解决方案
- 4 默克免疫分析新试剂盒产品
- 5 MILLIPLEX® 蛋白多因子检测平台
- 29 SMC™ 超高灵敏度单分子免疫检测技术
- 35 默克ELISAs产品
- 38 Belysa™ 免疫检测数据分析软件
- 39 默克生命科学生物标志物合作实验室检测实验服务

为您“量身”定制的免疫检测解决方案

想您所想，根据您的需要找到最佳的蛋白质检测平台

有什么比高质量、超灵敏、可重复、强大的免疫分析方案更能够帮助您在各种样本中研究的生物标志物的表达？

随着近些年蛋白检测技术的进步，与默克研发人员的卓越探索，我们在蛋白质定量检测技术的灵敏度和多重分析检测不断突破极限，因为我们始终致力于为您的研究需要提供最好的免疫分析技术与产品。

无论您需要使用基于Luminex® 技术的MILLIPLEX® 蛋白多因子检测平台，帮助您同时获取丰富的蛋白定量数据，还是需要使用超敏的SMC™ 单分子免疫检测平台，来获得飞摩尔级的蛋白检测数据，抑或经典稳定的金标准ELISAs试剂盒，我们都可帮助您获得可靠的蛋白检测实验数据，为您带来良好的使用体验。默克在免疫检测方面强大的技术实力，是您可以信赖的科学研究合作伙伴，帮助您推动生物标志物研究从最初的设想到达期望的成果。

默克强大的免疫分析平台

MILLIPLEX® 蛋白多因子检测

- 最广泛的分析物选择，跨越免疫，代谢，心血管，神经，代谢等多个领域和9个物种
- 千种蛋白因子供您选择，灵活的产品配置，试剂盒因子选择，更加贴合您的研究需要。
- 超过10000篇数据来源于我们的免疫分析产品的论文发表（部分高分文献列表见 P26）
- 强大的默克 Belysa™ 蛋白定量数据分析软件，为您提供强大的免疫分析数据和详实的数据报告

SMC™ 飞摩尔级单分子免疫检测

- 默克超过40年的免疫分析技术研发和制造经验，为您带来全新低丰度蛋白检测解决方案
- 检测灵敏度可达飞摩尔级
- 为精确、可重复和生物学研究相关的蛋白质检测而开发的检测技术
- 我们的设备生产符合国际 ISO 9001:2015标准

ELISA 酶联免疫检测试剂盒

- 超过1800种ELISA试剂盒供您选择，检测灵敏度高，特异性好，检测数据一致可靠。
- 试剂盒组分已经过最佳优化，简化实验准备步骤，易于使用。
- 操作说明与我们的技术团队，可以为您的样本制备提出最佳建议与方案

默克免疫检测方案：灵活、灵敏，想您所想，助您见所未见



	MILLIPLEX® 蛋白多因子检测	基于SMC™超灵敏单分子检测技术的SMCxPRO™	ELISA经典金标准单因子检测
	目前做多可以精确测量样品中的 48种蛋白质	探索以前无法检测的 低丰度蛋白质	蛋白质定量的可信标准
单重/多重	多重蛋白检测	单重蛋白检测	单重蛋白检测
灵敏度	最高可至 pg/mL	最高可至 fg/mL	最高可至 pg/mL
样本量	25 µL (样本可能需要稀释)	5-100 µL	50-100 µL
动态范围	3-4 log	4-5 log	2-3 log
检测技术	MILLIPLEX® Luminex® 多因子技术	SMC™ 单分子自检测技术	ELISA酶联免疫检测技术
配套仪器	Luminex®: INTELLIFLEX®, FLEXMAP 3D®, Luminex® 200™, MAGPIX®	SMCxPRO™	ELISA酶标仪

默克免疫分析试剂盒新产品

新品上市! MILLIPLEX® 与 SMC™ 单分子免疫检测试剂盒

Description	Species	Cat. No.
MILLIPLEX® Panels		
Metabolic Hormone Panel V3	Human	HMH3-34K
SARS-CoV-2 Antigen Panel 1 IgA	Human	HC19SERA1-85K
SARS-CoV-2 Antigen Panel 1 IgG	Human	HC19SERG1-85K
SARS-CoV-2 Antigen Panel 1 IgM	Human	HC19SERM1-85K
Cytokine/Chemokine	Chicken	GCYT1-16K
Cytokine/Chemokine	Primate	PRCYTA-40K
SMC™ Immunoassay Kits		
IFN β High Sensitivity Immunoassay Kit	Human	03-0191-00
Tau (T181) High Sensitivity Immunoassay Kit	Human	03-0184-00
IL-18 High Sensitivity Immunoassay Kit	Human	03-0190-00
α -Synuclein (S129) High Sensitivity Immunoassay Kit	Human	03-0188-00
SARS-CoV-2 RBD IgG Kit	Human	03-0193-00

即将上市

Description	Species	Cat. No.
MILLIPLEX® Panels		
Fibrosis Panel 1	Human	Coming Soon!
SMC™ Streamlined Kits		
α -Synuclein (total) High Sensitivity Immunoassay Kit	Human	Coming Soon!
SARS-CoV-2 S1 IgA Kit	Human	Coming Soon!
SARS-CoV-2 RBD IgM Kit	Human	Coming Soon!
ELISA Kits		
IL-6	Human	EZIL6-98K
IL-8	Human	EZIL8-100K
MCP-1	Human	EZMCP1-99KRM

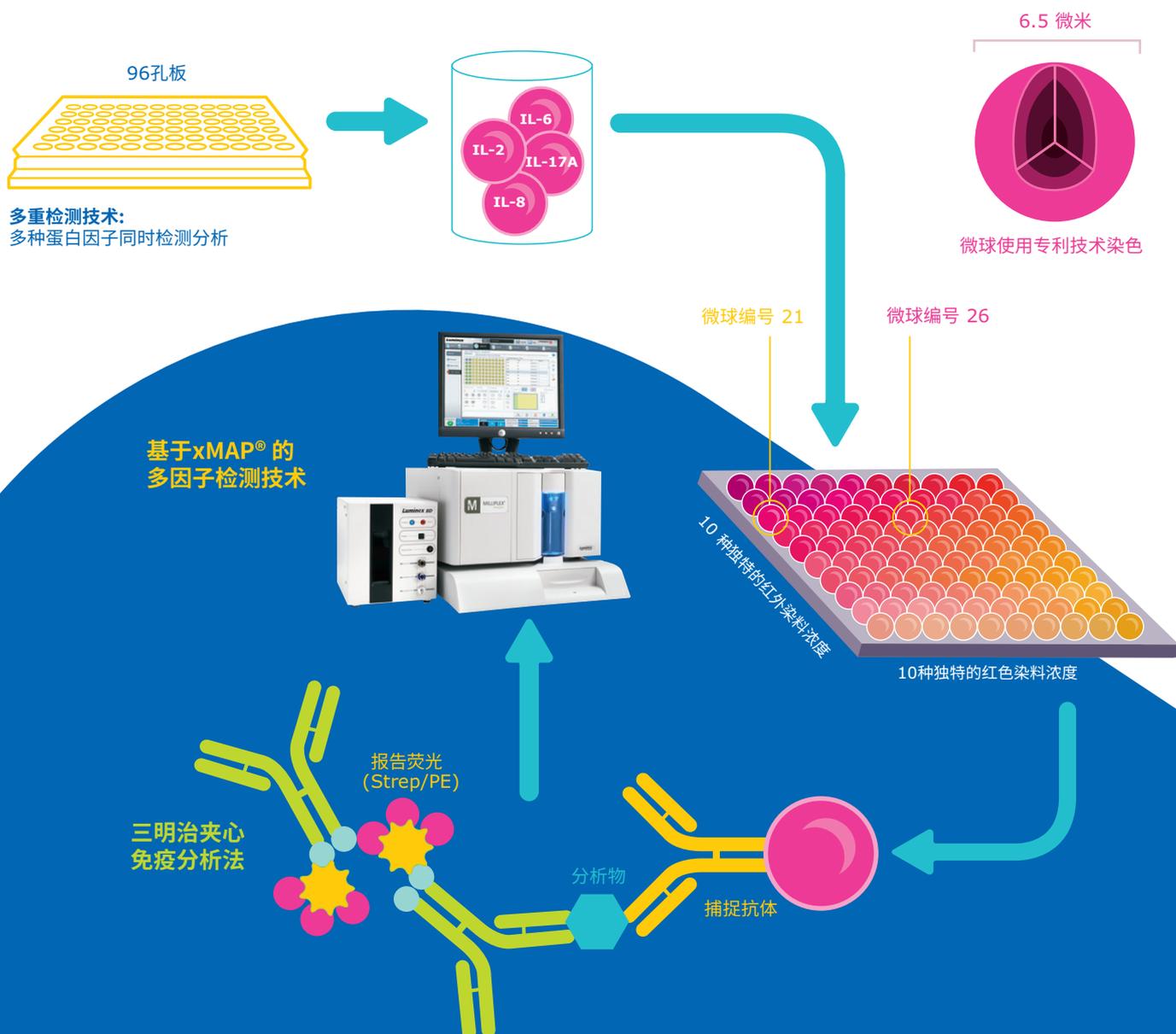
MILLIPLEX® 人类细胞因子检测试剂盒: 48因子, 更丰富的因子选择

MILLIPLEX® 人类细胞因子/趋化因子/生长因子 Panel A, 结合了48种免疫细胞因子。如您需要更多该试剂盒相关信息, 请参阅我们的网站或者联系我们当地的技术人员。

MILLIPLEx® 蛋白多因子检测平台

MILLIPLEx® 是基 Luminex® xMAP® 液相芯片技术的蛋白多因子检测产品，该技术采用独特的微球染色技术，通过 2-3 种荧光染料，按照不同比例对微米级的微球进行染色，可获得 1-500 种不同微球组成的液相微球悬浮芯片系统，检测时不同颜色微珠上偶联针对不同待测分析物特异性捕获抗体，通过最终荧光标记的检测抗体双抗夹心原理，使用 Luminex® 平台，轻松实现对单个样本中的多种待测分析物的精确检测。

该产品已广泛应用于免疫分析、肿瘤、神经生物学、信号通路、代谢、毒性研究，心血管疾病等重要研究领域。



新品速递

MILLIPLEX® 非人灵长类48因子试剂盒

默克生命科学全新推出 MILLIPLEX® Non-Human Primate Cytokine/ Chemokine Panel，为您带来全新 48 个免疫细胞因子组合的检测试剂盒，您可以在 1-48 个因子之间任意组合，同时也可以选择 48 因子及 38 因子预混包装试剂盒。

默克免疫检测解决方案，只为满足您多样的免疫检测需求。

MILLIPLEX® Non-Human Primate Cytokine/ Chemokine/Growth Factor Panel A

货号: PRCYTA-40K, PRCYTA-40K-PX38, PRCYTA-40K-PX48 **BSL2**

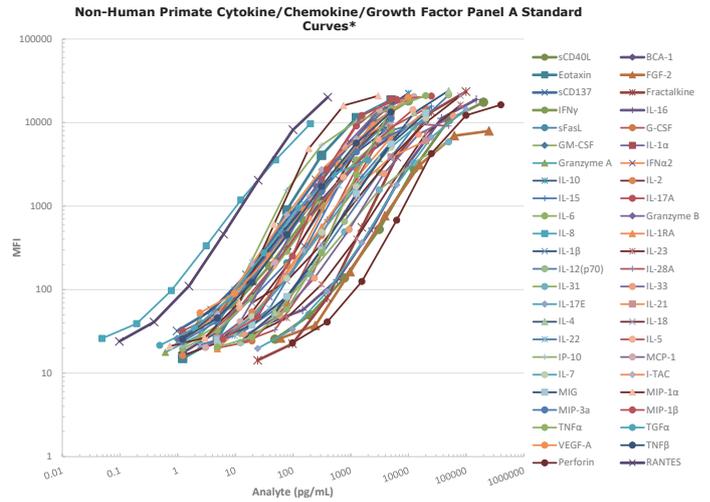
* 提供 1-48 因子任意组合因子定制预混。

可检测因子: 见下方表格

可检测样本类型: 血清, 血浆, 细胞培养上清

标准曲线: 为每个因子都进行特定优化, 可以得到更可靠的检测结果, 还有批次间一致性检测, 是 MILLIPLEX® 检测数据一贯的稳定的保证。

48 个因子的标准曲线示例:



*Standard Curves for all analytes performed in MXPRSM-A serum matrix except RANTES was in L-AB assay buffer.

使用值得您信赖的 MILLIPLEX® 构建数据分析规范, 确保随着时间的推移, 检测性能保持一致不变。

Analyte	Standard Curve Range(pg/mL)	Sensitivity: minDC(pg/mL)*
sCD40L	48.83-200,000	16.53
BCA-1	1.22-5,000	0.37
Eotaxin	1.22-5,000	1.45
FGF-2	61.04-250,000	44.87
sCD137	0.98-4,000	0.31
Fractalkine	24.41-100,000	7.99
IFN γ	2.44-10,000	1.37
IL-16	36.62-150,000	12.31
sFasL	4.88-20,000	2.51
G-CSF	4.88-20,000	4.43
GM-CSF	1.22-5,000	0.23
IL-1 α	1.22-5,000	0.79
Granzyme A	0.61-2,500	0.27
IFN α 2	2.44-10,000	1.24
IL-10	2.44-10,000	0.37
IL-2	1.22-5,000	0.59
IL-15	6.10-25,000	1.76
IL-17A	1.22-5,000	0.42
IL-6	1.22-5,000	0.41
Granzyme B	0.98-4,000	0.18
IL-8	0.05-200	0.02
IL-1Ra	4.88-20,000	1.04
IL-1 β	0.98-4,000	0.18
IL-23	19.53-80,000	4.45

Analyte	Standard Curve Range(pg/mL)	Sensitivity: minDC(pg/mL)*
IL-12 (p70)	12.21-50,000	2.3
IL-28A	12.21-50,000	10.69
IL-31	12.21-50,000	2.63
IL-33	14.65-60,000	5.45
IL-17E	24.41-100,000	7.26
IL-21	4.88-20,000	1.33
IL-4	12.21-50,000	3.27
IL-18	19.53-80,000	5.2
IL-22	2.44-10,000	2.09
IL-5	2.93-12,000	0.75
IP-10	1.22-5,000	0.6
MCP-1	3.05-12,500	2.71
IL-7	4.88-20,000	1.1
I-TAC	1.22-5,000	0.35
MIG	4.88-20,000	2.39
MIP-1 α	0.73-3,000	0.93
MIP-3 α	1.22-5,000	0.27
MIP-1 β	6.10-25,000	4.28
TNF α	4.88-20,000	4.19
*RANTES	0.10-400	0.04
TGF α	0.49-2,000	0.32
VEGF-A	2.44-10,000	0.5
TNF β	1.22-5,000	0.2
Perforin	97.66-400,000	46.92

检测灵敏度(minDC, 或最小可检出浓度)计算使用过夜检测实验方案n=8, 数据使用MILLIPLEX® Analyst 5.1软件分析, 查看我们的试剂盒操作手册获取更多信息。

48 to 1, larger & customizable

MILLIPLEX® Human Panel A - 48 plex

默克生命科学全新推出 MILLIPLEX® Human Cytokine/Chemokine/Growth Factor Panel A, 为您带来全新 48 个免疫细胞因子组合的检测试剂盒, 您可以在 1-48 个因子之间任意组合, 同时也可以选择 48 因子及 38 因子预混包装试剂盒。默克免疫检测解决方案, 只为满足您多样的免疫检测需求。

MILLIPLEX® Human Cytokine/Chemokine/ Growth Factor Panel A

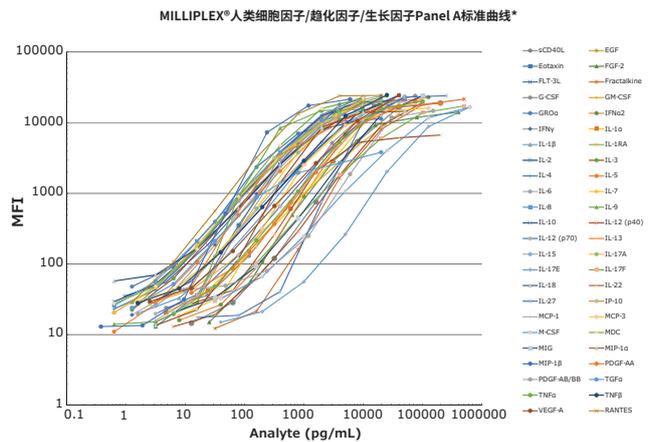
(Cat. Nos. HCYTA-60K*;
38因子预混包装: HCYTA-60K-PX38;
48因子预混包装: HCYTA-60K-PX48)
*提供1-48因子任意组合因子定制预混。

可检测因子: 见下方表格

可检测样本类型: 血清, 血浆, 组织 / 细胞裂解液, 细胞培养上清

标准曲线: 为每个因子都进行特定优化, 可以得到更可靠的检测结果, 还有批次间一致性检测, 是 MILLIPLEX® 检测数据一贯的稳定的保证。

48个因子的标准曲线示例:



*HCYTA-60K标准曲线检测示例数据采用4°C, 16-18小时过夜孵育检测方案

使用值得您信赖的MILLIPLEX® 构建数据分析规范, 确保随着时间的推移, 检测性能保持一致不变。

Analyte	Standard Curve Range (pg/mL)	Sensitivity: minDC (pg/mL)*
sCD40L	13 - 200,000	5.65
EGF°	3 - 50,000	3.20
Eotaxin°	3 - 50,000	3.08
FGF-2	26 - 400,000	22.30
FLT-3L	0.96 - 15,000	0.84
Fractalkine	32 - 500,000	29.75
G-CSF°	4.8 - 75,000	3.76
GM-CSF°	2.6 - 40,000	1.55
GROα	1.3 - 20,000	1.05
IFNα2°	8 - 125,000	6.56
IFNγ°	1.3 - 20,000	0.86
IL-1α°	4.8 - 75,000	2.27
IL-1β°	1.6 - 25,000	0.52
IL-1RA°	1.6 - 25,000	1.29
IL-2°	0.64 - 10,000	0.28
IL-3°	1.3 - 20,000	0.28
IL-4°	0.64 - 10,000	0.20
IL-5°	0.64 - 10,000	0.17
IL-6°	0.64 - 10,000	0.14
IL-7°	0.64 - 10,000	0.14
IL-8°	0.64 - 10,000	0.52
IL-9	0.64 - 10,000	3.05
IL-10°	2.6 - 40,000	0.91
IL-12 (p40)°	6.4 - 100,000	3.24

Analyte	Standard Curve Range (pg/mL)	Sensitivity: minDC (pg/mL)*
IL-12 (p70)°	3 - 50,000	0.88
IL-13°	6.4 - 100,000	2.58
IL-15°	3 - 50,000	0.74
IL-17A°	1.3 - 20,000	0.71
IL-17E/IL-25°	40 - 625,000	19.77
IL-17F°	32 - 500,000	28.63
IL-18°	0.64 - 10,000	0.53
IL-22°	13 - 200,000	12.68
IL-27	16 - 250,000	50.78
IP-10/CXCL10°	2.6 - 40,000	2.13
MCP-1°	3 - 50,000	3.05
MCP-3	8 - 125,000	8.61
M-CSF°	40 - 625,000	31.95
MDC	0.64 - 10,000	0.42
MIG°	6.4 - 100,000	3.98
MIP-1α°	3 - 50,000	3.82
MIP-1β°	0.38 - 6,000	0.37
PDGF-AA°	13 - 200,000	10.33
PDGF-AB/BB°	9.6 - 150,000	16.39
RANTES°	1.3 - 20,000	1.58
TGFα	1.3 - 20,000	0.97
TNFα°	6.4 - 100,000	5.39
TNFβ°	1.6 - 25,000	0.80
VEGF-A°	2.6 - 40,000	0.98

*检测灵敏度(minDC, 或最小可检出浓度)计算使用过夜检测实验方案n=8, 数据使用MILLIPLEX® Analyst 5.1软件分析, 查看我们的试剂盒操作手册获取更多信息。

°38因子预混试剂盒检测数据包含在其中

MILLIPLEX® Analyte Species Index

Analyte	Species	Analyte	Species	Analyte	Species
4-6		B7-H6	H	Complement C1q	H
4-1BBL/TNFSF9	H	BAD (total)	H	Complement C2	H
4E-BP1 (total)	H,M,R	BAD (Ser112)	H,M	Complement C3	H
4E-BP1 (Thr37/46)	H,M,R	BAFF/Blys	H	Complement C3b/iC3b	H
5'-NT/CD73	H,R	BAFF/Blys (autoantibody)	H	Complement C4	H
6Ckine/CCL21/Exodus-2	H,M	BAX (total)	H	Complement C4b	H
		BCA-1/CXCL13	H	Complement C5	H
A		Bcl-2 (total)	H	Complement C5a	H
α 1-Acid Glycoprotein (AGP)	H,M,R	Bcl-2 (Ser70)	H	Complement Factor B	H
α-1-Antitrypsin (A1AT)	H	Bcl-xL (total)	H	Complement Factor H	H
α-1 Microglobulin	H	Bcl-xL/BAD (interaction)	H	Complement Factor I	H
α-2 Macroglobulin (A2M)	H,M,R	BDNF	H,M,R	Connective Tissue Growth Factor (CTGF)	R
α-Fetoprotein (AFP)	H	Betacellulin	M	Contactin-1	H
α-MSH	H,M,R	BIM	H	Corticosterone	R
α-Synuclein	H	Blk (Tyr389)	H	Cortisol	H,Mul
ACTH	C,H,M,NHP,R	BMP-9	H	CRAF (Ser338)	H,M,R
Active Caspase 8 (total)	H	BNP	H	Creatine Kinase Muscle (CKM)	R
Active Caspase 9 (total)	H	BRAF (Ser446)	H,M,R	CREB (Ser133)	H,M,R
ADAMTS13	H	BRAK/CXCL14	H	CREB (total)	H,M,R
Adiponectin	H,M,R	BTLA	H	CTACK/CCL27	H,M
Adipsin/Factor D	H,M			CTAG1B/NY-ESO-1 (autoantibody)	H
Agouti-Related Protein (AgRP)	H,NHP	C		CTLA-4/CD152	H
ALK-1 (soluble)	M	c-Jun (Ser73)	H,M,R	CXCL6/GCP-2	H
Akt/PKB (Ser473)	H,M,R	c-Kit (panTyr)	H	CXCL16	H,M
Akt/PKB (total)	H,M,R	c-Kit/SCFR (soluble)	H	CYFRA21-1	H
Akt1 (Ser473)	H,M,R	c-Met/HGFR (panTyr)	H	Cystatin C	C,H,M,R
Akt1 (total)	H,M,R	c-Myc (total)	H		
Akt2 (Ser474)	H,M,R	C-Peptide	H,NHP	D	
Akt2 (total)	H,M,R	C-Peptide 2	M,R	D-dimer	H
Akt3 (Ser472)	H,M,R	C-Reactive Protein (CRP)	H,M	DKK1	H,M,R
Akt3 (total)	H,M,R	CA125	H	DPP4	H
Albumin	C,H,R	CA15-3	H		
ALDH1A1	H	CA19-9	H	E	
Amphiregulin	M	Calbindin	H	E-Cadherin	H
Amylin (active)	H,M,NHP,R	Carbonic Anhydrase 9 (CA9)	H	EGF	H,M,R
Amylin (total)	C,H	Cardiac Troponin I (cTnI)	R	EGFR/HER1/ErbB1 (soluble)	H
Amyloid beta 1-40 (Aβ 1-40)	H,M	Cardiac Troponin T (cTnT)	R	EGFR2/Her2/ErbB2 (soluble)	H
Amyloid beta 1-42 (Aβ 1-42)	H,M	Cathepsin D	H	EGFR3/Her3/ErbB3 (soluble)	H
Angiogenin (ANG)	H	Caveolin-1 (CAV-1)	R	eIF-4B (Ser422)	H,M,R
Angiopoietin-2	H,M	CCL28	H	eIF-4E (Ser209)	H,M,R
Angiostatin/Kringle	H	CCNB1/Cyclin B1 (autoantibody)	H	eIF-4G (Ser1108)	H,M,R
Angiotensinogen (AGT)	H	CD3ε (panTyr)	H	eIF2a (Ser51)	H,M,R
ANGPTL3	H	CD14 (soluble)	H	ENA-78/CXCL5	H
ANGPTL4	H	CD25/IL-2Rα	H	Endocan-1 (ESM-1)	H,M
ANGPTL6/AGF	H	CD27	H	Endoglin	H,M
Antithrombin III	H	CD28	H	Endostatin	H
Apelin	H	CD30 (soluble)	H,M	Endothelin-1	H,M
Apolipoprotein AI (Apo AI)	H	CD30/TNFRSF8	H	ENO1 (autoantibody)	H
Apolipoprotein AII (Apo AII)	H	CD31/PECAM-1 (soluble)	H,M	Eotaxin/CCL11	E,H,M,NHP,R
Apolipoprotein B (Apo B)	H	CD40	H	Eotaxin-2/CCL24/MIP1F-2	H
Apolipoprotein CII (Apo CII)	H	CD40L (soluble)	H,M,NHP	Eotaxin-3/CCL26	H
Apolipoprotein CIII (Apo CIII)	H	CD44	H	EpCAM	H
Apolipoprotein E (Apo E)	H	CD80/B7-1	H	Erythropoietin (EPO)	H,M,R
ApoE4	H	CD86/B7-2	H	ErbB1/EGFR (panTyr)	H
APRIL	H	CD137/4-1BB/TNFRSF9 (soluble)	H	ErbB2/HER2 (panTyr)	H
Arginase-1 (ARG1)	H,R			ErbB3/HER3 (panTyr)	H
ATF2 (Thr71)	H,M	CD226/DNAM-1	H	ErbB4/HER4 (panTyr)	H
ATR (total)	H	CEA	H	Erk/MAPK 1/2 (Thr185/Tyr187)	H,M,R
AXL (soluble)	H	CENP-A (Centromere Protein A) (autoantibody)	H	Erk/MAPK 1/2 (total)	H,M,R
		CENP-B (Centromere Protein B) (autoantibody)	H	E-Selectin (soluble)	H,M,R
B		Chk1 (Ser345)	H,M,R	Estradiol	Mul
β-2-Microglobulin	C,H,M,R	Chk2 (Thr68)	H	Extracellular Matrix Protein 1 (ECM1)	H
β-Endorphin	H,M,R	CK-MB	H		
β2-Glycoprotein (autoantibody)	H	Clusterin	C,H,M,R	F	
β-Tubulin (total)	H,M,R	CNTF	H,NHP	FABP1	H
B7-H2/ICOSL	H	Collagen IV	H	FABP3	H,R
B7-H3/CD276	H	C1q (autoantibody)	H	FABP4	H
B7-H4/VTCN1	H			FADD (Ser194)	H
B7-H5/VISTA	H				

MILLIPLEX® Analyte Species Index (continued)

Analyte	Species	Analyte	Species	Analyte	Species
Fas Ligand (sFasL) (soluble)	H,M,NHP	HGFR/c-Met (soluble)	H	IL-12 (p40)	F,H,M
Fas/TNFRSF6 (soluble)	F,H,M	HIF-1α (autoantibody)	H	IL-12 (p40) (autoantibody)	H
Ferritin	H	HMGB1	H	IL-12 (p70)	E,H,M,R
Fetuin A	H	HSP27 (Ser78)	H	IL-12/23 (p40)	NHP
FGF-1/FGF-acidic	H	HSP60 (autoantibody)	H	IL-13	E,F,H,M,NHP,R
FGF-2/FGF-basic	E,H,M,NHP	HSP70	H	IL-14/α -Taxilin	H
FGF-19	H	Human Serum Albumin (HSA)	H	IL-15	C,H,M,NHP,R
FGF-21	H,M,R	HVEM	H	IL-15 (autoantibody)	H
FGF-23	H,M,R			IL-16	G,H,M,NHP
FGFR1 (panTyr)	H	I		IL-17A/CTLA8	B,E,H,M,NHP,O,R
FGL1/Hepassocin	H	I-309/CCL1	H	IL-17A/CTLA8 (autoantibody)	H
Fgr (Tyr412)	H,R	ICAM-1 (soluble)	H,M,R	IL-17A/F	M
Fibrinogen	H	ICOS	H	IL-17E/IL-25	H,M,NHP
Fibroblast Activation Protein (FAP)	H	IDO1	H	IL-17F	H,M
Flt3 Ligand	F,H	IFNα2	G,H	IL-17F (autoantibody)	H
Flt3 (panTyr)	H	IFNβ	H	IL-18	C,E,F,H,NHP,Por,R
Follistatin (FST)	H,M	IFNβ (autoantibody)	H	IL-19	H
Follistatin-like Protein 1 (FSTL1)	H,M,R	IFNβ1	M	IL-20	H,M
Fractalkine/CX3CL1	E,H,M,NHP,R	IFNγ	B,C,E,F,G,H,M,NHP,O,Por,R	IL-21	G,H,NHP
FSH	C,H,M,NHP,R	IFNγ (autoantibody)	H	IL-22	H,M,NHP
Fyn (Tyr420)	H,M,R	IgA	H,M	IL-22 (autoantibody)	H
		IgE	H,M	IL-23	H,M,NHP
G		IGF-1	H	IL-24	H
Galectin-1	H	IGF-2	H	IL-27	H,M
Galectin-1 (GAL1) (autoantibody)	H	IGF1R (total)	H,M,R	IL-28A/IFNλ2	H,NHP
Galectin-3	H	IGF1R (panTyr)	H	IL-28B/IFNλ3	H,M
Galectin-3 (GAL3) (autoantibody)	H	IGF1R (Tyr1135/1136)	H,M	IL-29/IFNλ1	H
GAPDH (total)	H	IGFBP1	H	IL-31	H,M,NHP
G-CSF	E,H,M,NHP,R	IGFBP2	H	IL-32α	H
G-CSF (autoantibody)	H	IGF2BP2/IMP2 (autoantibody)	H	IL-33/NF-HEV (mature)	H,M,NHP
GDF-11	H	IGFBP3	H	IL-34	H
GDF15	H	IGF2BP3/IMP3 (autoantibody)	H	IL-35	H
GDNF	H	IGFBP4	H	IL-36β/IL-1F8	H
GH	C,H,M,NHP,R	IGFBP5	H	IL-36Ra/IL-1F5	B,O
Ghrelin (active)	C,H,M,NHP,R	IGFBP6	H	IL-37/IL-1F7	H
GIP (total)	C,H,M,NHP,R	IGFBP7	H	IL-38/IL-1F10	H
GITR	H	IgG1	H,M	Insulin	C,H,M,NHP,R
GITRL	H	IgG2	H	Involucrin	H
Glial Fibrillary Acidic Protein (GFAP)	H	IgG2a	M	IP-10/CXCL10	B,C,E,H,M,NHP,O,R
GLP-1 (active)	C,H,M,NHP,R	IgG2b	M	IR (total)	H,R
GLP-1 (total)	H,M	IgG3	H,M	IR (panTyr)	H
Glucagon	C,H,M,NHP,R	IgG4	H	IR (Tyr1162/1163)	H
GM-CSF	C,E,F,H,M,NHP,Por,R	IgM	H,M	Irisin	H,M,R
GnRH	H,M	IkBa (Ser32)	H	IRS1 (Ser636)	H,M,R
GOT1	R	IKKα/β (Ser177/181)	H	IRS1 (total)	H,M,R
GP130 (soluble)	H,M	IL-1α	B,E,H,M,NHP,O,Por,R	I-TAC/CXCL11	H
Granulysin	H	IL-1α (autoantibody)	H		
Granzyme A	H,NHP	IL-1β	B,E,F,H,M,NHP,O,Por,R	J	
Granzyme B	H,M,NHP	IL-1RI (soluble)	H,M	Jag1	H,M
GROα	E,H	IL-1RII (soluble)	H,M	JNK/SAPK1 (Thr183/Tyr185)	H,M,R
KC/GRO/CINC-1/CXCL1	R	IL-1Ra	H,NHP,Por	JNK/SAPK1 (total)	H,M,R
GSK3α (total)	H,M,R	IL-2	C,E,F,G,H,M,NHP,Por,R	Jo-1 (autoantibody)	H
GSK3α (Ser21)	H,M,R	IL-2Ra (soluble)	H,M		
GSK3β (total)	H,M,R	IL-3	H,M	K	
GSK3β (Ser9)	H,M,R	IL-4	B,E,F,H,M,NHP,O,Por,R	Kallikrein-6	H
GSTα	H,R	IL-4R (soluble)	H,M	KC-like Protein	C
		IL-5	E,H,M,NHP,R	KC/GRO/CINC-1/CXCL1	F,M
H		IL-6	B,C,E,F,G,H,M,NHP,O,Por,R	Keratin-1, 10	H
H2A.X (Ser139)	H,M,R	IL-6 (autoantibody)	H	Keratin-6	H
Haptoglobin	H,M,R	IL-6R (soluble)	H,M	KIM-1	C,H,M,R
HB-EGF	H	IL-6Ra (soluble)	H	Ku (autoantibody)	H
HCC-1/CCL14	H	IL-7	C,H,M		
HCC-4/CCL16	H	IL-8/CXCL8	B,C,E,F,H,NHP,O,Por	L	
HCGβ	H	IL-8/CXCL8 (autoantibody)	H	Lactotransferrin (LTF)	H
Hck (Tyr411)	H,M	IL-9	H,M	LAG-3	H
HE4	H	IL-10	B,C,E,G,H,M,NHP,O,Por,R	LAT (panTyr)	H
Hepsin	H	IL-10 (autoantibody)	H	Lck (panTyr)	H,M,R
HER2/ErbB2 (autoantibody)	H	IL-11	H,M	Lck (Tyr394)	H,M,R
HGF	H,M	IL-12	Por	Leptin	C,H,M,NHP,R

MILLIPLEX® Analyte Species Index (continued)

Analyte	Species	Analyte	Species	Analyte	Species
Leucine-rich alpha-2-glycoprotein 1 (LRG1)	H	Nectin-4	H	PSA (total)	H
Leukemia Inhibitory Factor (LIF)	H,M,R	Neurogranin (NRGN)	H	P-Selectin (soluble)	H,M
LH	C,H,M,NHP,R	Neuron-specific Enolase (NSE)	H	PTEN (total)	H,M,R
LIGHT	H,M	Neuropilin-1 (soluble)	H	PTEN (Ser380)	H,M,R
LIX/CXCL6/GCP-2	H,M,R	Neurotensin	H,M,R	PTH	H,R
L-Selectin (soluble)	H	Neutrophil Elastase-2 (ELA2)	H	PVR/CD155	H
Lymphotactin/XCL1	H	NFκB (total)	H,M,R	PYY (total)	C,H,M,NHP,R
Lyn (Tyr397)	H,R	NFκB (Ser536)	H,M		
		NGAL/Lipocalin-2	C,H,M,R	R	
M		NGF	H	RAGE (soluble)	H,M
Mannose-Binding Lectin (MBL)	H	Notch1	M	RANKL	H
MCAM/MUC18/sCD146	H	NOXA/Mcl-1 (interaction)	H	RANTES/CCL5	E,F,G,H,M,HNP,R
Mcl-1/BIM (interaction)	H	NT proBNP	H	Ras (total)	H
Mcl-1 (total)	H			RasG12D (total)	H
MCP-1/CCL2	B,C,E,F,H,M,NHP,R	O		RasG12V (total)	H
MCP-2/CCL8	H	Oncostatin-M (OSM)	H,M	RBP4	C,H
MCP-3/CCL7	H	Osteoactivin	H	Renin	H,M
MCP-4/CCL13	H	Osteocalcin (OC)	H	Resistin	H,M
MCP-5/CCL12	M	Osteocrin (OSTN)/Musclin	M,R	Ribosomal P (autoantibody)	H
M-CSF	G,H,M	Osteonectin/SPARC	H,M,R	RNP (Ribonucleoprotein) (autoantibody)	H
M-CSFR (panTyr)	H	Osteopontin (OPN)	C,H,M,R	RNP/Smith (RNP/Sm) (autoantibody)	H
MDC/CCL22	H,M	Osteoprotegerin (OPG)	H,M,R	RPS6 (Ser235/Ser236)	H,M,R
MDH1	H	OX40/CD134	H	RPS6 (total)	H,M,R
MDM2 (total)	H,M,R	Oxytocin	H,M,R		
MEK1 (Ser222)	H,M,R	P		S	
Melanoma Inhibitory Activity Protein (MIA)	H	P16-INK4a (autoantibody)	H	S100B	H
Melatonin	H,R	p21 (total)	H	SARS-CoV-2 N	H
Mesothelin	H	p38/SAPK2A/B (Thr180/Tyr182)	H,M,R	SARS-CoV-2 RBD	H
Mi-2 (autoantibody)	H	p38/SAPK2A/B (total)	H,M,R	SARS-CoV-2 Spike S1	H
MICA	H	p53 (autoantibody)	H	SARS-CoV-2 Spike S2	H
MICB	H	p53 (Ser15)	H	SCF	F,H
Midkine	H	p53 (Ser46)	H	Scf-70 (autoantibody)	H
MIF	H	p70S6 Kinase (total)	H,M,R	Sclerostin (SOST)	H,M,R
MIG/CXCL9	H,M	p70S6 Kinase (Thr389/412)	H,M,R	SDF-1/CXCL12	F,H,M
MIP-1α/CCL3	B,H,M,NHP,O,R	PAI-1 (total)	H,M,R	SDH	H,R
MIP-1β/CCL4	B,G,H,M,NHP,O	Pancreatic Polypeptide (PP)		Secretin	H,M
MIP-1δ/MIP-5/CCL15	H		C,H,M,NHP,R	Serum Amyloid A (SAA)	H
MIP-2/CXCL2	M,R	PARK5/Uchl1	H	Serum Amyloid P (SAP)	H,M
MIP-3α/CCL20	G,H,M,NHP	PARK7/DJ1 (Parkinson's Disease Protein 7)	H	Sex Hormone Binding Globulin (SHBG)	H
MIP-3β/CCL19	H,M	PCNA (Proliferating Cell Nuclear Antigen A) (autoantibody)	H	Siglec-7	H
MIP-4/PARC/CCL18	H	PD-1	H	Siglec-9	H
MMP-1	H	PDGF-AA	H	Sm (autoantibody)	H
MMP-2	H,M	PDGF-AB/BB	H	SMAD2 (Ser465/467)	H,M,R
MMP-3	H,M	PDGF-BB	H	SMAD3 (Ser423/425)	H,M,R
MMP-7	H	PDGFRα (panTyr)	H,M,R	SMAD4 (total)	H,M,R
MMP-8	H,M	PDGFRβ (panTyr)	H	SOX2 (autoantibody)	H
MMP-9	H	PD-L1	H	Src (Tyr419)	H,M,R
MMP-10	H	PD-L2	H	SSA/Ro52 (Sjögren's Syndrome-related antigen A/Ro52 kDa) (autoantibody)	H
MMP-12	H,M	PEDF	H	SSA/Ro60 (Sjögren's Syndrome-related antigen A/Ro60 kDa) (autoantibody)	H
MMP-13	H	Pentraxin-3 (PTX3)	H	SB/La (Sjögren's Syndrome-related antigen B/La) (autoantibody)	H
MPIF/CCL23	H	Perforin	H,NHP	STAT1 (Tyr701)	H,M
MSK1 (Ser212)	H,M	Periostin	H	STAT2 (Tyr690)	H
mTOR (Ser2448)	H,M,R	Progranulin (pGRN)	H	STAT3 (total)	H,M,R
mTOR (total)	H,M,R	PL-12 (Alanyl-tRNA Synthetase) (autoantibody)	H	STAT3 (Ser727)	H,M,R
Mucin-1 (MUC1) (autoantibody)	H	Placental Growth Factor 2	M	STAT3 (Tyr705)	H,M,R
Myeloperoxidase (MPO)	H	Placental Growth Factor (PLGF)	H	STAT5A/B (total)	H,M,R
Myeloperoxidase (MPO) (autoantibody)	H	Platelet Factor 4 (PF4)/CXCL4	H	STAT5A/B (Tyr694/699)	H,M,R
Myoglobin	H	PM/Sci 100 (autoantibody)	H	STAT6 (Tyr641)	H
Myosin Light Chain 3 (MYL3)	R	PRNP (Prion Protein)	H	Substance P	H,M,R
Myostatin/GDF8	H,M,R	Progesterone	Mul	Superoxide Dismutase 1 (soluble) (sSOD1)	H
		Prolactin	C,H,M,R		
N		ProMMP-9	M		
NAP-2/CXCL7	H	Proteinase 3 (autoantibody)	H		
NCAM (soluble)	H	PSA (free)	H		
NCAML1/L1CAM/CD171	H				
Nectin-2	H				

B/Bovine, C/Canine, E/Equine, F/Feline, G/Chicken, H/Human, M/Mouse, Mul/Multi-Species, NHP/Non-Human Primate, O/Ovine, Por/Porcine, R/Rat

MILLIPLEX® Analyte Species Index (continued)

Analyte	Species	Analyte	Species	Analyte	Species
Superoxide Dismutase 2 (soluble) (sSOD2)	H	TIM-3	H	U	
Survivin/BIRC5 (autoantibody)	H	TIMP-1	H,M,R	ucMGP	H
Syk (panTyr)	H	TIMP-2	H	uPAR (soluble)/CD87	H
T		TIMP-3	H	Uromodulin	H
T3	Mul,R	TIMP-4	H	V	
T4	Mul,R	Tissue Factor (TF)	H	VCAM-1 (soluble)	H
TARC/CCL17	H,M	TLR-2	H	VEGF	G,R
Tau (Total)	H	TNFR1 (total)	H	VEGF-A	B,H,M,NHP,O,R
Tau (Thr181)	H	TNFA	B,C,E,F,H,M,NHP,O,Por,R	VEGF-C	H,M
Tenascin-C (TN-C)	H	TNFA (autoantibody)	H	VEGF-D	H,M
Testosterone	Mul	TNFβ/Lymphotoxin-α (LTA)	H,M,NHP	VEGFR1/Flt-1 (panTyr)	H
TFF-3	C,H	TNF RI (soluble) (sTNFR1)	H,M	VEGFR1/Flt-1 (soluble)	H,M
TGFα	H,NHP	TNF RII (soluble) (sTNFR2)	H,M	VEGFR2/KDR/Flk-1 (panTyr)	H
TGFβ1	Mul	TPO	H	VEGFR2/KDR/Flk-1 (soluble)	H,M
TGFβ2	Mul	TRAIL/TNFSF10	H	VEGFR3/Flt-4 (panTyr)	H,M,R
TGFβ3	Mul	Transglutaminase 2 (TGM2)	H	VEGFR3/Flt-4 (soluble)	H,M
TGFβRII (total)	H	TRAP5	H	Vitamin D Binding Protein	H
Thrombomodulin	H,M	TREM2	H	Y	
Thrombospondin-1 (TSP-1)	H	Troponin I (TnI)	H,M	Yes (Tyr421)	H,M,R
Thrombospondin-2 (TSP-2)	H	Troponin T (TnT)	H,M	YKL40/CHI3L1	H
TIE1 (panTyr)	H	TSC2 (total)	H,M,R	Z	
TIE2 (panTyr)	H	TSC2 (Ser939)	H,M,R	ZAP-70 (panTyr)	H
Tie-2 (soluble)	H	TSH	C,H,M,NHP,R		
		TSLP	H		
		TWEAK	H		

B/Bovine, C/Canine, E/Equine, F/Feline, G/Chicken, H/Human, M/Mouse, Mul/Multi-Species, NHP/Non-Human Primate, O/Ovine, Por/Porcine, R/Rat

H/Human pp. 22-26; M/Mouse pp. 27-29; NHP/Non-Human Primate p. 27; R/Rat pp. 29-30; All other species p. 31; Cell Signaling kits pp. 32-35

MILLIPLEX® 试剂盒特点 即开即用，包含所有实验所需试剂、耗材

检测抗体
Detection
Antibody

96孔板 & 贴膜
Plate and
sealers

SA-PE

血清基质
Serum matrix



清洗缓冲液 Wash Buffer
分析缓冲液 Assay Buffer

微珠 & 预混空瓶
BEADS

质控品
QC1 & QC2

标准品
Standards

微球稀释液
Beads Dilution

HUMAN

Immunology

Human Cytokine/Chemokine/
Growth Factor Panel A **BSL2**

☐ (Cat. No. HCYTA-60K)

38 (Cat. No. HCYTA-60K-PX38) ◆

48 (Cat. No. HCYTA-60K-PX48)

☐ (Cat. No. HCYTASF-60K) **SF**

38 (Cat. No. HCYTASF-60K-PX38) ◆ **SF**

48 (Cat. No. HCYTASF-60K-PX48) **SF**

sCD40L	IL-13 ◆
EGF ◆	IL-15 ◆
Eotaxin/CCL11 ◆	IL-17A/CTLA8 ◆
FGF-2/FGF-basic	IL-17E/IL-25 ◆
Flt3 Ligand	IL-17F ◆
Fractalkine/CX3CL1	IL-18 ◆
G-CSF ◆	IL-22 ◆
GM-CSF ◆	IL-27
GRO α	IP-10/CXCL10 ◆
IFN α 2 ◆	MCP-1/CCL2 ◆
IFN γ ◆	MCP-3/CCL7
IL-1 α ◆	M-CSF ◆
IL-1 β ◆	MDC/CCL22
IL-1RA ◆	MIG/CXCL9 ◆
IL-2 ◆	MIP-1 α /CCL3 ◆
IL-3 ◆	MIP-1 β /CCL4 ◆
IL-4 ◆	PDGF-AA ◆
IL-5 ◆	PDGF-AB/BB ◆
IL-6 ◆	RANTES/CCL5 ◆▲
IL-7 ◆	TGF α
IL-8/CXCL8 ◆	TNF α ◆
IL-9	TNF β /Lymphotoxin- α (LTA) ◆
IL-10 ◆	VEGF-A ◆
IL-12 (p40) ◆	
IL-12 (p70) ◆	

Human Cytokine/Chemokine
Panel I **BSL2**

☐ (Cat. No. HCYTOMAG-60K)

29 (Cat. No. HCYTMAG-60K-PX29)

30 (Cat. No. HCYTMAG-60K-PX30) ◆

38 (Cat. No. HCYTMAG-60K-PX38)

41 (Cat. No. HCYTMAG-60K-PX41)

sCD40L	IL-9
EGF ◆	IL-10 ◆
Eotaxin/CCL11 ◆	IL-12 (p40) ◆
FGF-2/FGF-basic	IL-12 (p70) ◆
Flt3 Ligand	IL-13 ◆
Fractalkine/CX3CL1	IL-15 ◆
G-CSF ◆	IL-17A/CTLA8 ◆
GM-CSF ◆	IP-10/CXCL10 ◆
GRO	MCP-1/CCL2 ◆
IFN α 2 ◆	MCP-3/CCL7
IFN γ ◆	MDC/CCL22
IL-1 α ◆	MIP-1 α /CCL3 ◆
IL-1 β ◆	MIP-1 β /CCL4 ◆
IL-1Ra ◆	PDGF-AA ▲
IL-2 ◆	PDGF-AB/BB ▲
IL-3 ◆	RANTES/CCL5 ◆▲
IL-4 ◆	TGF α
IL-5 ◆	TNF α ◆
IL-6 ◆	TNF β /Lymphotoxin- α (LTA) ◆
IL-7 ◆	VEGF-A ◆
IL-8/CXCL8 ◆	

Human Cytokine/Chemokine
Panel II **BSL2**

☐ (Cat. No. HCP2MAG-62K)

23 (Cat. No. HCP2MAG-62K-PX23)

☐ (Cat. No. HCP2SF-62K) **SF**

23 (Cat. No. HCP2SF-62K-PX23) **SF**

6Ckine/CCL21/ Exodus-2	IL-28A/IFNA2
BCA-1/CXCL13	IL-33/NF-HEV (mature)
CTACK/CCL27	LIF
ENA-78/CXCL5	MCP-2/CCL8
Eotaxin-2/CCL24/ MIPF-2	MCP-4/CCL13
Eotaxin-3/CCL26	MIP-1 δ /MIP-5/CCL15
I-309/CCL1	SCF
IL-16	SDF-1/CXCL12
IL-20	TARC/CCL17
IL-21	TPO
IL-23	TRAIL/TNFSF10
	TSLP

Human Cytokine/Chemokine
Panel III **BSL2**

(Cat. No. HCP3MAG-63K)

HCC-1/CCL14 ▲	M-CSF
IL-11	MIG/CXCL9
IL-29/IFN λ 1	MIP-3 α /CCL20
I-TAC/CXCL11	MIP-3 β /CCL19
LIX/CXCL6/GCP-2	NAP-2/CXCL7 ▲
Lymphotoxin/XCL1	

Human Cytokine/Chemokine
Panel IV **BSL2**

☐ (Cat. No. HCP4MAG-64K)

20 (Cat. No. HCP4MG-64K-PX20)

BAFF/Blys	IL-28B/IFNA3
BRAK/CXCL14	IL-32 α
CCL28	IL-34
CXCL16	IL-35
HCC-4/CCL16	IL-36 β /IL-1F8
HMGB1 ●	IL-37/IL-1F7
IFN β	IL-38/IL-1F10
IL-14/ α -Taxilin	MIP-4/PARC/CCL18
IL-19	MPIF/CCL23
IL-24	YKL40/CHI3L1

Human IL-18 Singleplex **BSL2**

(Cat. No. HIL18MAG-66K)

IL-18

Human High Sensitivity
T Cell **BSL2**

☐ (Cat. No. HSTCMAG-28SK)

13 (Cat. No. HSTCMAG28SPMX13) ◆

21 (Cat. No. HSTCMAG28SPMX21)

☐ (Cat. No. HSTCSF-28SK) **SF**

13 (Cat. No. HSTCSF28SPMX13) ◆ **SF**

21 (Cat. No. HSTCSF28SPMX21) **SF**

Fractalkine/CX3CL1	IL-12 (p70) ◆
GM-CSF ◆	IL-13 ◆
IFN γ ◆	IL-17A/CTLA8
IL-1 β ◆	IL-21
IL-2 ◆	IL-23
IL-4 ◆	I-TAC/CXCL11
IL-5 ◆	MIP-1 α /CCL3
IL-6 ◆	MIP-1 β /CCL4
IL-7 ◆	MIP-3 α /CCL20
IL-8/CXCL8 ◆	TNF α ◆
IL-10 ◆	

384-well Human High
Sensitivity T Cell **BSL2**

(Cat. No. HSTC384-28K)

21 (Cat. No. HSTCMAG384-PX21)

Fractalkine/CX3CL1	IL-12 (p70)
GM-CSF	IL-13
IFN γ	IL-17A/CTLA8
IL-1 β	IL-21
IL-2	IL-23
IL-4	I-TAC/CXCL11
IL-5	MIP-1 α /CCL3
IL-6	MIP-1 β /CCL4
IL-7	MIP-3 α /CCL20
IL-8/CXCL8	TNF α
IL-10	

MILLIPLEX® 人类细胞因子检测试剂盒：48因子，更丰富的因子选择

MILLIPLEX® 人类细胞因子/趋化因子/生长因子 Panel A，结合了48种免疫细胞因子。如您需要更多该试剂盒相关信息，请参阅我们的网站或者联系我们当地的技术人员。

Human Th17 **BSL2**

(Cat. No. HTH17MAG-14K)
 25 (Cat. No. HT17MG-14K-PX25)
 (Cat. No. HTH17SF-14K) **SF**
 25 (Cat. No. HT17SF-14K-PX25) **SF**

GM-CSF	IL-17E/IL-25
IFN γ	IL-17F
IL-1 β	IL-21
IL-2	IL-22
IL-4	IL-23
IL-5	IL-27
IL-6	IL-28A/IFN λ 2
IL-9	IL-31
IL-10	IL-33/NF-HEV (mature)
IL-12 (p70)	MIP-3 α /CCL20
IL-13	TNF α
IL-15	TNF β /Lymphotoxin- α (LTA)
IL-17A/CTLA8	

Human CD8+ T Cell **BSL2**

☉ (Cat. No. HCD8MAG-15K)
 17 (Cat. No. HCD8MAG15K17PMX)
 ☉ (Cat. No. HCD8SF-15K) **SF**
 17 (Cat. No. HCD8SF15K17PMX) **SF**

sCD137/4-1BB/TNFRSF9	IL-4
sFAS/TNFRSF6	IL-5
sFasL	IL-6
GM-CSF	IL-10
Granzyme A	IL-13
Granzyme B	MIP-1 α /CCL3
IFN γ	MIP-1 β /CCL4
IL-2	Perforin
	TNF α

Human Soluble Cytokine Receptor

(Cat. No. HSCRMAG-32K)
 14 (Cat. No. HSCRMAG32KPX14)

sCD30	sIL-6R
sEGFR/sHER1/ErbB1	sRAGE
sGP130	sTNF RI
sIL-1RI	sTNF RII
sIL-1RII	sVEGFR1/sFlt-1
sIL-2Ra	sVEGFR2/sKDR/sFlk-1
sIL-4R	sVEGFR3/sFlt-4

Human Complement Panel 1

(Cat. No. HCMP1MAG-19K)

Adipsin/Factor D	C5a
C2	Factor I
C4b	Mannose-binding Lectin (MBL)
C5	

Human Complement Panel 2

(Cat. No. HCMP2MAG-19K)

C1q	C4
C3	Factor B
C3b	Factor H

Human MMP Panel 1

(Cat. No. HMMP1MAG-55K)

MMP-3	MMP-13
MMP-12	

Human MMP Panel 2

(Cat. No. HMMP2MAG-55K)

MMP-1	MMP-9
MMP-2	MMP-10
MMP-7	

Human TIMP Panel 1 (Serum/Plasma samples)

(Cat. No. HTMP1MAG-54K)

TIMP-1	TIMP-2
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Human TIMP Panel 2 (Cell culture samples)

(Cat. No. HTMP2MAG-54K)

TIMP-1	TIMP-3
TIMP-2	TIMP-4

Multi-Species TGF β – Singleplex #

(Cat. No. TGFBMAG-64K-01)

TGF β 1

Multi-Species TGF β – 3 Plex ▼

(Cat. No. TGFBMAG-64K-03) #

NON-CONFIGURABLE KIT

TGF β 1	TGF β 3
TGF β 2	

Immune Response**Human Autoimmune Autoantibody****

(Cat. No. HAIAB-10K)

β 2-Glycoprotein	Ribosomal P
C1q	RNP
CENP-A (Centromere Protein A)	(Ribonucleoprotein)
CENP-B (Centromere Protein B)	RNP/Smith (RNP/Sm)
Jo-1	Scl-70
Ku	Sm
Mi-2	SSA/Ro52 (Sjögren's Syndrome-related antigen A/Ro52 kDa)
Myeloperoxidase (MPO)	SSA/Ro60 (Sjögren's Syndrome-related antigen A/Ro60 kDa)
PCNA (Proliferating Cell Nuclear Antigen A)	SB/La (Sjögren's Syndrome-related antigen B/La)
PL-12 (Alanyl-tRNA Synthetase)	
PM/Sci 100	
Proteinase 3	

Human Cytokine Autoantibody **

(Cat. No. HCYTAAB-17K)

BAFF/Blys	IL-12 (p40)
G-CSF	IL-15
IFN β	IL-17A/CTLA8
IFN γ	IL-17F
IL-1 α	IL-18
IL-6	IL-22
IL-8/CXCL8	TNF α
IL-10	

Human Sepsis Panel 1

(Cat. No. HSP1MAG-63K)

sFAS/TNFRSF6	MIF
sFasL	PAI-1 (total)
sICAM-1	sVCAM-1

Human Sepsis Panel 2

(Cat. No. HSP2MAG-63K)

Granzyme B	MIP-1 α /CCL3
HSP70	MIP-1 β /CCL4
IL-1 α	MMP-8
IL-8/CXCL8	

Human Sepsis Panel 3

(Cat. No. HSP3MAG-63K)

Lactotransferrin (LTF)	Resistin
Neutrophil Elastase-2 (ELA2)	Thrombospondin-1 (TSP-1)
NGAL/Lipocalin-2	

MILLIPLEX® 图例说明

- + 不可混合在一起的因子：
 - 活性蛋白与总蛋白
 - 游离蛋白与总蛋白
- ◆ 在有◆标示试剂盒货号中含有的因子
- ▼ 仅提供微球预混包装

- ▲ 在血清/血浆中，这些分析物不能与本试剂盒中的其他分析物同时检测
- ▶ 样品收集过程中需要加入蛋白酶抑制剂
- 需要对样本中蛋白进行抽提
- ** 试剂盒中不包含标准品和质控品，相对定量

SF 试剂盒内不含血清基质

BSL2 需要在BSL2实验室中操作

- 仅可检测血清血浆样本
- ★ 仅可检测组织样本
- ^ 竞争法试剂盒
- ☉ 可提供定制预混试剂盒
- 分析物与本试剂盒中其他样本相比稀释比例不同
- 血清样本中无法检测

Human Skin (Skin extracts only)

(Cat. No. SKINMAG-50K)

Cortisol ^	Involucrin
Human Serum Albumin (HSA)	Keratin-1,10 Keratin-6

Human Immunoglobulin Isotyping

☉ (Cat. No. HGAMMAG-301K)

IgA	IgG3
IgG1	IgG4
IgG2	IgM

Human IgE – Singleplex

(Cat. No. HGAMMAG-303E)

IgE

Virology

SARS-CoV-2 Antigen Panel 1 IgA **NEW** **

(Cat. No. HC19SERA1-85K)

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

SARS-CoV-2 Antigen Panel 1 IgG **NEW** **

(Cat. No. HC19SERG1-85K)

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

SARS-CoV-2 Antigen Panel 1 IgM **NEW** **

(Cat. No. HC19SERM1-85K)

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

Metabolism/ Endocrinology

Human Adipokine Panel 1 (Serum/Plasma samples)

(Cat. No. HADK1MAG-61K)

Adiponectin	PAI-1 (total)
Adipsin/Factor D	Resistin
NGAL/Lipocalin-2	

Human Adipokine Panel 2 (Serum/Plasma samples) **BSL2**

(Cat. No. HADK2MAG-61K)

IL-1β	Leptin
IL-6	MCP-1/CCL2
IL-8/CXCL8	NGF
Insulin	TNFα

Human Adipocyte (Cell culture samples)

(Cat. No. HADCYMAG-61K)

Adiponectin	MCP-1/CCL2
HGF	NGF
IL-1β	PAI-1 (total)
IL-6	Resistin
IL-8/CXCL8	TNFα
Leptin	

Human Diabetes ▼ **BSL2**

⑤ (Cat. No. HDIAB-34K-PMX5)

⑤ (Bulk Cat. No. HDIAB34KPMX5BK)

NON-CONFIGURABLE KIT

C-Peptide	Insulin
GLP-1 (active)▶	Leptin
Glucagon▶	

Human Metabolic Hormone V3 **NEW** **BSL2**

(Cat. No. HMH3-34K)

(Cat. No. HMH3SF-34K) **SF**

Amylin (active) †▶	Insulin
Amylin (total) †▶	Leptin
C-Peptide	MCP-1/CCL2
Ghrelin (active) ▶	Pancreatic Polypeptide (PP)
GIP (total)	PYY (total)
GLP-1 (active) †▶	Secretin
GLP-1 (total) †▶	TNFα
Glucagon ▶	
IL-6	

Human Metabolic Hormone

(Cat. No. HMHEMAG-34K) **BSL2**

Amylin (active) †▶	IL-6
Amylin (total) †▶	Insulin
C-Peptide	Leptin
Ghrelin (active) ▶	MCP-1/CCL2
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active) †▶	PYY (total)
GLP-1 (total) †▶	TNFα
Glucagon▶	

Human Myokine **BSL2**

(Cat. No. HMYOMAG-56K)

Apelin	IL-15
BDNF	Irisin
Erythropoietin (EPO)	LIF
FABP3	Myostatin/GDF8
FGF-21	Oncostatin-M (OSM)
Fractalkine/CX3CL1	Osteocrin (OSTN)/ Musclin
FSTL1	Osteonectin/SPARC
IL-6	

Human Aging Panel 1 **BSL2**

(Cat. No. HAGE1MAG-20K)

CTACK/CCL27	IL-6
FGF-21	IL-10*
GDF-11	IL-18
GDF15	Jag1
GnRH	Leptin

Human Liver Protein **BSL2**

(Cat. No. HLPPMAG-57K)

(Cat. No. HLPPSF-57K) **SF**

α-Fetoprotein (AFP)	FGF-19
ANGPTL3	FGF-21
ANGPTL4	FGF-23
ANGPTL6	HGF
FABP1	

Human IGF Binding Protein▶

(Cat. No. HIGFBMAG-53K)

IGFBP1	IGFBP5
IGFBP2	IGFBP6
IGFBP3 ^o	IGFBP7
IGFBP4	

Human IGF ■

(Cat. No. HIGFMAG-52K)

IGF-1	IGF-2
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Human Pituitary Panel 1

(Cat. No. HPTP1MAG-66K)

ACTH	FSH
Agouti-Related Protein (AgRP)	GH
CNTF	LH
	TSH

Multi-Species Hormone ■ ^

(Cat. No. MSHMAG-21K)

Cortisol	Testosterone
Estradiol	T3
Progesterone	T4

Cardiovascular

Human CVD Panel 1 **BSL2**

(Cat. No. HCVD1MAG-67K)

BNP	LIGHT
CK-MB	NT proBNP
CXCL6/GCP-2	Oncostatin-M (OSM)
CXCL16	Placental Growth Factor (PLGF)
Endocan-1 (ESM-1)	Troponin I (TnI)
FABP3	
FABP4	

Human CVD Panel 2

(Cat. No. HCVD2MAG-67K)

ADAMTS13	Myoglobin
D-dimer ^s	NGAL/Lipocalin-2
GDF15	sP-Selectin
sICAM-1	Serum Amyloid A
Myeloperoxidase (MPO)	sVCAM-1

Human CVD Panel 3 (Acute Phase)

(Cat. No. HCVD3MAG-67K)

α-1-Acid Glycoprotein (AGP)	Haptoglobin
α-2-Macroglobulin	sL-Selectin
Adipsin/Factor D	Platelet Factor 4 (PF4)/CXCL4
CRP	Serum Amyloid P (SAP)
Fetuin A	
Fibrinogen ◊	

Human CVD Panel 4

(Cat. No. HCVD4MAG-67K)

sCD31/sPECAM-1	Thrombomodulin
sE-Selectin	Tissue Factor (TF)
Follistatin (FST)	Troponin T (TnT)
Pentraxin-3 (PTX3)	

Human CVD Panel 6

(Cat. No. HCVD6MAG-67K)

sCD14	MCAM/MUC18
DPP4	Progranulin (pGRN)
Endostatin	ucMGP
LRG1	

Human Apolipoprotein

(Cat. No. APOMAG-62K)

Apo AI	Apo CII
Apo AII	Apo CIII
Apo B	Apo E

Bone**Human Bone** **BSL2**

(Cat. No. HBNMAG-51K)

ACTH	Osteocalcin (OC)
DKK1	Osteopontin (OPN)
FGF-23	Osteoprotegerin (OPG)
IL-1β	PTH
IL-6	Sclerostin (SOST)
Insulin	TNFα
Leptin	

Human RANKL – Singleplex(Cat. No. HRNKLMAG-51K-01) **BSL2**

RANKL

Cancer**Human Immuno-Oncology Checkpoint Protein Panel 1**

(Cat. No. HCKP1-11K)

17 (Cat. No. HCKP1-11K-PX17)

BTLA	HVEM
CD27	ICOS
CD28	LAG-3
CD40	PD-1
CD80/B7-1	PD-L1
CD86/B7-2	PD-L2
CTLA-4/CD152	TIM-3
GITR	TLR-2
GITRL	

Human Immuno-Oncology Checkpoint Protein Panel 2

(Cat. No. HCKP2-11K)

4-1BBL/TNFSF9	FGI1/Hepassocin
5'-NT/CD73	Galectin-1
APRIL	Galectin-3
Arginase-1	Granulysin
B7-H2/ICOSL	Granzyme B
B7-H3/CD276	IDO1
B7-H4/VTCN1	MICA
B7-H5/VISTA	MICB
B7-H6	Nectin-2
BAFF/BLyS	Nectin-4
CD25/IL-2Rα	OX40/CD134
CD30/TNFRSF8	Perforin
CD40L	PVR/CD155
CD137/4-1BB	Siglec-7
CD226/DNAM-1	Siglec-9
E-Cadherin	

Human Cancer Autoantibody**

(Cat. No. HCABMAG-13K)

CNNB1/Cyclin B1	IGF2BP2/IMP2
CTAG1B/NY-ESO-1	IGF2BP3/IMP3
ENO1	Mucin-1 (MUC1)
Galectin-1 (GAL1)	P16-INK4a
Galectin-3 (GAL3)	p53
HER2/ErbB2	SOX2
HIF-1α	Survivin/BIRC5
HSP60	

Human Circulating Cancer Biomarker Panel 1

(Cat. No. HCCBP1MAG-58K)

α-Fetoprotein (AFP)	IL-8/CXCL8
CA125	Leptin
CA15-3	MIF
CA19-9	Osteopontin (OPN)
CEA	Prolactin
CYFRA21-1	PSA (free)†
sFAS/TNFRSF6	PSA (total)†
sFasL	SCF
FGF-2/FGF-basic	TGFα
HCGβ	TNFα
HE4	TRAIL/TNFSF10
HGF	VEGF-A
IL-6	

Human Circulating Cancer Biomarker Panel 2

(Cat. No. HCCBP2MAG-58K)

Antithrombin III	Extracellular Matrix Protein 1 (ECM1)
Complement Factor H (CFH)	Vitamin D Binding Protein

Human Circulating Cancer Biomarker Panel 3

(Cat. No. HCCBP3MAG-58K)

Cathepsin D	Melanoma Inhibitory Activity (MIA)
Ferritin	Myeloperoxidase (MPO)
Fibroblast Activation Protein (FAP)	Sex Hormone Binding Globulin (SHBG)
Galectin-3	
IGFBP3	

Human Circulating Cancer Biomarker Panel 4

(Cat. No. HCCB4MAG-58K)

ALDH1A1	Kallikrein-6
Carbonic Anhydrase 9 (CA9)	Mesothelin
CD44	Midkine
EpCAM	NCAM1/L1CAM/CD171
Hepsin	Transglutaminase 2 (TGM2)

Human Cancer/Metastasis Biomarker Panel 1 **BSL2**

(Cat. No. HCMBMAG-22K)

DKK1	Osteoprotegerin (OPG)
GDF15	Periostin
Neuron-specific Enolase (NSE)	TRAP5
Osteonectin/SPARC	TWEAK
	YKL40/CHI3L1

Human Angiogenesis/Growth Factor Panel 1 **BSL2**

(Cat. No. HAGP1MAG-12K)

(Cat. No. HAGP1SF-12K) **SF**

Angiopoietin-2	HB-EGF
BMP-9	HGF
EGF	IL-8/CXCL8
Endoglin	Leptin
Endothelin-1	Placental Growth Factor (PLGF)
FGF-1/FGF-acidic	VEGF-A
FGF-2/FGF-basic	VEGF-C
Follistatin (FST)	VEGF-D
G-CSF	

Human Angiogenesis Panel 2

(Cat. No. HANG2MAG-12K)

Angiostatin/Kringle	sIL-6Ra
sAXL	sNeuropilin-1 (sNRP-1)
sCD31/sPECAM-1	Osteopontin (OPN)
sc-Kit/sStem Cell Factor Receptor (SCFR)	PDGF-AB/BB
sE-Selectin	Tenascin-C (TN-C)
sEGFR/sHER1/sErbB1	Thrombospondin-2 (TSP-2)
sHER2/sEGFR2/sErbB2	sTIE-2
sHER3/sEGFR3/sErbB3	suPAR
sHGFR/sc-Met	sVEGFR1/sFlt-1
	sVEGFR2/sKDR/sFlk-1
	sVEGFR3/sFlt-4

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 - 游离蛋白与总蛋白
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SF 试剂盒内不含血清基质**BSL2** 需要在BSL2实验室中操作

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- ★ 仅可检测组织样本
- ^ 竞争法试剂盒
- ⊙ 可提供定制预混试剂盒
- 分析物与本试剂盒中其他样本相比稀释比例不同
- ⊖ 血清样本中无法检测

Neuroscience

Human Amyloid Beta and Tau (CSF samples)

(Cat. No. HNABTMAG-68K)

Amyloid beta 1-40	pTau (Thr181)
Amyloid beta 1-42	Tau (total)

Human Neuroscience Panel 1 (CSF samples)

(Cat. No. HNS1MAG-95K)

α-Synuclein	PARK5/UCLH1
Glial Fibrillary Acidic Protein (GFAP)	PARK7/DJ1
Neuron-specific Enolase (NSE)	Transglutaminase 2 (TGM2)

Human Neuroscience Panel 2

(Cat. No. HNS2MAG-95K)

Angiogenin (ANG) ^o	Neurogranin (NRGN)
ApoE4 ^o	PRNP (Prion Protein)
FABP3	TREM2
Ferritin	

Human Neurodegenerative Disease Panel 1

(Cat. No. HNDG1MAG-36K)

α-2-Macroglobulin	Complement Factor C3
Apo AI	
Apo CIII	Complement Factor H (CFH)
Apo E	

Human Neurodegenerative Disease Panel 2

(Cat. No. HNDG2MAG-36K)

α-1-Antitrypsin (A1AT)	MIP-4/PARC/CCL18
C4	PEDF
CRP	Serum Amyloid P (SAP)

Human Neurodegenerative Disease Panel 3

(Cat. No. HNDG3MAG-36K)

BDNF	PAI-1 (total)
Cathepsin D	PDGF-AA
sICAM-1	PDGF-AB/BB
Myeloperoxidase (MPO)	RANTES/CCL5
sNCAM	sVCAM-1

Human Neurodegenerative Disease Panel 4 (CSF samples)

(Cat. No. HNDG4MAG-36K)

Amyloid beta 1-40	sRAGE
Amyloid beta 1-42	S100B
GDNF	

Human Neurological Disorders Panel 3

(Cat. No. HND3MAG-39K)

Angiotensinogen (AGT)	Osteopontin (OPN)
Contactin-1	Soluble Superoxide Dismutase 1 (sSOD1)
Fetuin A ^o	Soluble Superoxide Dismutase 2 (sSOD2)
Kallikrein-6	

Human Neuropeptide ■ ▲

(Cat. No. HNP MAG-35K)

α-MSH	Oxytocin
β-Endorphin	Substance P
Neurotensin	

Human Circadian Stress ■ ▲

(Cat. No. HNCSMAG-35K)

Cortisol	Melatonin
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Toxicity

Human Kidney Injury Panel 1 (Urine samples)

(Cat. No. HKI1MAG-99K)

Calbindin	KIM-1
Collagen IV	Osteoactivin
FABP1	Renin
GSTα	TFF-3
IP-10/CXCL10	TIMP-1

Human Kidney Injury Panel 2 (Urine samples)

(Cat. No. HKI2MAG-99K)

α-1-Microglobulin	EGF
Albumin	NGAL/Lipocalin-2
Clusterin	Osteopontin (OPN)
Cystatin C	

Human Kidney Injury Panel 3 (Urine samples)

(Cat. No. HKI3MAG-99K)

β-2-Microglobulin	Uromodulin
RBP4	

Human Kidney Injury Panel 4 (Serum/Plasma samples)

(Cat. No. HKI4MAG-99K)

EGF	Osteopontin (OPN)
FABP1	PTH
IP-10/CXCL10	Renin
KIM-1	

Human Kidney Injury Panel 5 (Serum/Plasma samples)

(Cat. No. HKI5MAG-99K)

α-1-Microglobulin	Osteoactivin
Collagen IV	TIMP-1
NGAL/Lipocalin-2	Uromodulin

Human Kidney Injury Panel 6 (Serum/Plasma samples)

(Cat. No. HKI6MAG-99K)

β-2-Microglobulin	Cystatin C
Clusterin	RBP4

Human Liver Injury

(Cat. No. HLINJMAG-75K)

5'NT/CD73	MDH1
ARG1	SDH
GSTα	

Need Some Advice on Running Assays?

Visit our [MILLIPLEX® FAQs page](#) and download our Tips and Tricks brochure to perfect your methods.

PRIMATE

Immunology

Non-Human Primate Cytokine/Chemokine Panel A **NEW** **BSL2**

- ☉ (Cat. No. PRCYTA-40K)
- 38 (Cat. No. PRCYTA-40K-PX38)♦
- 48 (Cat. No. PPRCYTA-40K-PX48)
- ☉ (Cat. No. PRCYASF-40K) **SF**
- 38 (Cat. No. PRCYASF-40K-PX38)♦ **SF**
- 48 (Cat. No. PRCYASF-40K-PX48) **SF**

BCA-1	IL-15♦
sCD137♦	IL-16
CD40L♦	IL-17A♦
Eotaxin	IL-17E
sFASL♦	IL-18♦
FGF-2	IL-21♦
Fractalkine	IL-22♦
G-CSF♦	IL-23♦
GM-CSF♦	IL-28A
Granzyme A♦	IL-31
Granzyme B♦	IL-33♦
IFNα2♦	IP-10♦
IFNγ♦	I-TAC♦
IL-1α	MCP-1♦
IL-1β♦	MIG♦
IL-1RA♦	MIP-1α♦
IL-2♦	MIP-1β♦
IL-4♦	MIP-3α♦
IL-5♦	Perforin♦
IL-6♦	RANTES♦▲
IL-7♦	TGFα♦
IL-8♦	TNFα♦
IL-10♦	TNFβ
IL-12 (p70)♦	VEGF-A♦

Non-Human Primate Cytokine/Chemokine Panel 1 **BSL2**

- ☉ (Cat. No. PRCYTOMAG-40K)
- 23 (Cat. No. PCYTMG-40K-PX23)

sCD40L	IL-12/23 (p40)
G-CSF	IL-13
GM-CSF	IL-15
IFNγ	IL-17A/CTLA8
IL-1β	IL-18
IL-1Ra	MCP-1/CCL2
IL-2	MIP-1α/CCL3
IL-4	MIP-1β/CCL4
IL-5	TGFα
IL-6	TGFβ
IL-8/CXCL8	VEGF-A
IL-10	

Non-Human Primate Cytokine/Chemokine Panel 2 **BSL2**

- ☉ (Cat. No. PRCYT2MAG40K)
- 24 (Cat. No. PRCYT2MAG40K-PX24)
- 25 (Cat. No. PRCYT2MAG40K-PX25)

sCD137/4-1BB/TNFRSF9	IL-17E/IL-25
Eotaxin/CCL11	IL-21
sFasL	IL-22
FGF-2/FGF-basic	IL-23
Fractalkine/CX3CL1	IL-28A/IFNλ2
Granzyme A	IL-31
Granzyme B	IL-33/NF-HEV (mature)
IL-1α	IP-10/CXCL10
IL-2	MIP-3α/CCL20
IL-4	Perforin
IL-6	RANTES/CCL5 ▲
IL-16	TNFβ/Lymphotoxin-α (LTA)
IL-17A/CTLA8	

Multi-Species TGFβ – Singleplex

(Cat. No. TGFBMAG-64K-01)

TGFβ1

Multi-Species TGFβ – 3 Plex ▼

(Cat. No. TGFBMAG-64K-03)

NON-CONFIGURABLE KIT

TGFβ1 TGFβ3
TGFβ2

Metabolism/Endocrinology

Non-Human Primate Metabolic Hormone **BSL2**

(Cat. No. NHPMHMAG-45K)
(Cat. No. NHPMHSF-45K) **SF**

Amylin (active)▶	Insulin
C-Peptide	Leptin
Ghrelin (active)▶	MCP-1/CCL2
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active)▶	PYY (total)
Glucagon▶	
IL-6	

Non-Human Primate Pituitary Panel 1

(Cat. No. NHPPT1MG-46K)

ACTH	FSH
Agouti-Related Protein (AgRP)	GH
CNTF	LH
	TSH

Multi-Species Hormone ■ ▲

(Cat. No. MSHMAG-21K)

Cortisol	Testosterone
Estradiol	T3
Progesterone	T4

MOUSE

Immunology

Mouse Cytokine/Chemokine Panel 1

- ☉ (Cat. No. MCYTOMAG-70K)
- 25 (Cat. No. MCYTOMAG-70K-PMX)♦
- 32 (Cat. No. MCYTOMAG-70K-PX32)

Eotaxin/CCL11	IL-13♦
G-CSF♦	IL-15♦
GM-CSF♦	IL-17A/CTLA8♦
IFNγ♦	IP-10/CXCL10♦
IL-1α♦	KC/GRO/CINC-1/CXCL1♦
IL-1β♦	LIF
IL-2♦	LIX
IL-3	MCP-1/CCL2♦
IL-4♦	M-CSF
IL-5♦	MIG/CXCL9
IL-6♦	MIP-1α/CCL3♦
IL-7♦	MIP-1β/CCL4♦
IL-9♦	MIP-2/CXCL2♦
IL-10♦	RANTES/CCL5♦
IL-12 (p40)♦	TNFα♦
IL-12 (p70)♦	VEGF-A

Mouse Cytokine/Chemokine Panel 2

- ☉ (Cat. No. MECY2MAG-73K)
- 15 (Cat. No. MECY2MAG-73KPX)

Erythropoietin (EPO)	IL-17A/F
Exodus-2/CCL21/6Ckine	IL-20
Fractalkine/CX3CL1	MCP-5/CCL12
IFNβ1	MDC/CCL22
IFNγ	MIP-3α/CCL20
IL-11	MIP-3β/CCL19
IL-16	TARC/CCL17
	TIMP-1

Mouse High Sensitivity T Cell

- ☉ (Cat. No. MHSTCMAG-70K)
- 18 (Cat. No. MHSTCMAG-70KPMX)

GM-CSF	IL-10
IFNγ	IL-12 (p70)
IL-1α	IL-13
IL-1β	IL-17A/CTLA8
IL-2	KC/GRO/CINC-1/CXCL1
IL-4	LIX
IL-5	MCP-1/CCL2
IL-6	MIP-2/CXCL2
IL-7	TNFα

NHP / MOUSE

MILLIPLEX® IMMUNOLOGY / METABOLISM / ENDOCRINOLOGY

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Mouse Th17

- ☉ (Cat. No. MTH17MAG-47K)
 25 (Cat. No. MT17MAG47K-PX25)

sCD40L	IL-17E/IL-25
GM-CSF	IL-17F
IFN γ	IL-21
IL-1 β	IL-22
IL-2	IL-23
IL-4	IL-27
IL-5	IL-28B/IFN λ 3
IL-6	IL-31
IL-10	IL-33/NF-HEV (mature)
IL-12 (p70)	MIP-3 α /CCL20
IL-13	TNF α
IL-15	TNF β /Lymphotoxin- α (LTA)
IL-17A/CTLA8	

Mouse CD8+ T Cell

- ☉ (Cat. No. MCD8MAG-48K)
 15 (Cat. No. MCD8MAG48K-PX15)

sCD137/4-1BB/ TNFRSF9	IL-4 IL-5
sFas/TNFRSF6	IL-6
sFasL	IL-10
GM-CSF	IL-13
Granzyme B	MIP-1 β /CCL4
IFN γ	RANTES/CCL5
IL-2	TNF α

Mouse Soluble Cytokine Receptor

- ☉ (Cat. No. MSCRMAG-42K)

sCD30	sRAGE
SGP130	sTNF RI
sIL-1RI	sTNF RII
sIL-1RII	sVEGFR1/sFlt-1
sIL-2R α	sVEGFR2/sKDR/sFlk-1
sIL-4R	sVEGFR3/sFlt-4
sIL-6R	

Mouse MMP Panel 1 BSL2
(Serum/Plasma samples)

- (Cat. No. MMMP1MAG-79K)

MMP-2	MMP-8
MMP-3	

Mouse MMP Panel 2 BSL2
(Serum/Plasma samples)

- (Cat. No. MMMP2MAG-79K)

proMMP-9	MMP-12
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Mouse MMP Panel 3
(Cell culture samples)

- (Cat. No. MMMP3MAG-79K)

MMP-2	proMMP-9
MMP-3	MMP-12
MMP-8	

Multi-Species TGF β – Singleplex

- (Cat. No. TGFBMAG-64K-01)

TGF β 1

Multi-Species TGF β – 3 Plex NON-CONFIGURABLE KIT

- (Cat. No. TGFBMAG-64K-03)

TGF β 1	TGF β 3
TGF β 2	

Immune Response**Mouse Immunoglobulin Isotyping**

- ☉ (Cat. No. MGAMMAG-300K)

IgA	IgG2b
IgG1	IgG3
IgG2a	IgM

Mouse IgE – Singleplex

- (Cat. No. MGAMMAG-300E)

IgE

**Metabolism/
Endocrinology****Mouse Adipokine**
(Serum/Plasma samples)

- (Cat. No. MADKMAG-71K)

IL-6	PAI-1 (total)
Insulin	Resistin
Leptin	TNF α
MCP-1/CCL2	

Mouse Adipocyte
(Cell culture samples)

- (Cat. No. MADCYMAG-72K)

Adiponectin	PAI-1 (total)
IL-6	Resistin
Leptin	TNF α
MCP-1/CCL2	

Mouse Adiponectin – Singleplex
(Serum/Plasma samples)

- (Cat. No. MADPNMAG-70K-01)

Adiponectin

Mouse Metabolic Hormone Expanded

- (Cat. No. MMHE-44K)

Amylin (active) \blacktriangleright	Leptin
C-Peptide 2	MCP-1/CCL2
Ghrelin (active) \blacktriangleright	Pancreatic Polypeptide (PP)
GIP (total)	PYY (total)
GLP-1 (active) \blacktriangleright	Resistin
GLP-1 (total) \blacktriangleright	Secretin
Glucagon \blacktriangleright	TNF α
IL-6	
Insulin	

Mouse Myokine

- (Cat. No. MMYOMAG-74K)

BDNF	Irisin
Erythropoietin (EPO) \star	LIF
FGF-21	Myostatin/GDF8
Follistatin-like Protein 1 (FSTL1)	Oncostatin-M (OSM)
Fractalkine/CX3CL1	Osteocrin (OSTN)/Musclin
IL-6	Osteonectin/SPARC
IL-15	

Mouse Aging Panel 1

- (Cat. No. MAGE1MAG-25K)

CTACK/CCL27	Jag1
FGF-21	Leptin
GnRH	Notch1
IL-6	TNF α

Mouse Pituitary

- (Cat. No. MPTMAG-49K)

ACTH	LH
BDNF	Prolactin
FSH	TSH
GH	

Multi-Species Hormone BSL2 ^

- (Cat. No. MSHMAG-21K)

Cortisol	Testosterone
Estradiol	T3
Progesterone	T4

Cardiovascular

Mouse CVD Panel 1 BSL2

(Cat. No. MCV1MAG-77K)

sCD31/sPECAM-1	ProMMP-9
sE-Selectin	sP-Selectin
sICAM-1	Thrombomodulin
PAI-1 (total)	

Mouse CVD Panel 2 BSL2

(Cat. No. MCV2MAG-77K)

sCD40L	Oncostatin M (OSM)
CXCL16	Placental Growth Factor 2
Endocan-1 (ESM-1)	Troponin I (TnI)
Follistatin (FST)	Troponin T (TnT)
LIGHT	

Mouse Acute Phase Panel 2

(Cat. No. MAP2MAG-76K)

α-1-Acid Glycoprotein (AGP)	CRP
α-2-Macroglobulin	Haptoglobin
Adipsin/Factor D	Serum Amyloid P (SAP)

Cancer

Mouse Angiogenesis / Growth Factor Panel 1

(Cat. No. MAGPMAG-24K)

sALK-1	IL-6
Amphiregulin	IL-17A/CTLA8
Angiopoietin-2 ▲	KC/GRO/CINC-1/ CXCL1
Betacellulin ▲	Leptin
sCD31/sPECAM-1 ▲	MCP-1/CCL2
EGF	MIP-1α/CCL3
Endoglin	Placental Growth Factor 2
Endothelin-1	Prolactin
sFasL	SDF-1/CXCL12
FGF-2/FGF-basic	TNFα
Follistatin (FST)	VEGF-A
G-CSF	VEGF-C
HGF	VEGF-D
IL-1β	

Mouse Immuno-Oncology Checkpoint Protein Panel 1

NEW

☉ (Cat. No. MCKP1-110K)

Ⓐ (Cat. No. MCKP1-110K-PX28)

Ⓐ (Bulk Cat No. MCKP1-110K-PBK28)

4-1BBL/TNFSF9	Galectin-1
5'-NT/CD73	Galectin-3
B7-H2/ICOSL	GITR
B7-H3/CD276	Granzyme B
BCA-1/CXCL-13	HVEM
BTLA	IFNγ
CD137/4-1BB	IL-10
CD226/DNAM-1	LAG-3
CD25/IL-2Ra	PD-1
CD27	PD-L1
CD40	PD-L2
CD80/B7-1	TIM-3
CTLA-4/CD152	TLR-2
E-Cadherin	TNFα

Neuroscience

Mouse Amyloid Beta

(Cat. No. MABMAG-83K)

Amyloid beta 1-40	Amyloid beta 1-42
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Mouse Neuropeptide ■ ▲

(Cat. No. RMNPMAG-83K)

α-MSH	Oxytocin
β-Endorphin	Substance P
Neurotensin	

Toxicity

Mouse Kidney Injury Panel 1

(Cat. No. MKI1MAG-94K) BSL2

β-2-Microglobulin ^u	Renin
IP-10/CXCL10	TIMP-1
KIM-1	VEGF-A ^u

Mouse Kidney Injury Panel 2

(Cat. No. MKI2MAG-94K)

Clusterin	NGAL/Lipocalin-2
Cystatin C	Osteopontin (OPN)
EGF	

RAT

Immunology

Rat Cytokine/Chemokine

☉ (Cat. No. RECYTMAG-65K)

Ⓐ (Cat. No. RECYMAG65K27PMX)

EGF	IL-10
Eotaxin/CCL11	IL-12 (p70)
Fractalkine/CX3CL1	IL-13
G-CSF	IL-17A/CTLA8
GM-CSF	IL-18
KC/GRO/CINC-1/ CXCL1	IP-10/CXCL10
IFNγ	Leptin
IL-1α	LIX
IL-1β	MCP-1/CCL2
IL-2	MIP-1α/CCL3
IL-4	MIP-2/CXCL2
IL-5	RANTES/CCL5
IL-6	TNFα
	VEGF

Multi-Species TGFβ – Singleplex

(Cat. No. TGFBMAG-64K-01)

TGFβ1	
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Multi-Species TGFβ – 3 Plex ▼

(Cat. No. TGFBMAG-64K-03)

NON-CONFIGURABLE KIT

TGFβ1	TGFβ3
TGFβ2	

Metabolism/ Endocrinology

Rat Adipokine (Serum/Plasma samples)

(Cat. No. RADPKMAG-80K)

IL-1β	MCP-1/CCL2
IL-6	PAI-1 (total)
Insulin	TNFα
Leptin	

Rat Adipocyte (Cell culture samples)

(Cat. No. RADPCMAG-82K)

Adiponectin	MCP-1/CCL2
IL-1β	PAI-1 (total)
IL-6	TNFα
Leptin	

MILLIPLEX® 图例说明

† 不可混合在一起的因子:

- 活性蛋白与总蛋白
- 游离蛋白与总蛋白

◆ 在有◆标示试剂盒货号中含有的因子

▼ 仅提供微球预混包装

▲ 在血清/血浆中, 这些分析物不能与本试剂盒中的其他分析物同时检测

▶ 样品收集过程中需要加入蛋白酶抑制剂

■ 需要对样本中蛋白进行抽提

** 试剂盒中不包含标准品和质控品, 相对定量

SF 试剂盒内不含血清基质

● 仅可检测血清血浆样本

★ 仅可检测组织样本

^ 竞争法试剂盒

☉ 可提供定制预混试剂盒

◦ 分析物与本试剂盒中其他样本相比稀释比例不同

○ 血清样本中无法检测

BSL2 需要在BSL2实验室中操作

Rat Metabolic Hormone

(Cat. No. RMHMAG-84K)

Amylin (active)▶	Insulin
C-Peptide 2	Leptin
Ghrelin (active)▶	MCP-1/CCL2
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active)▶	PYY (total)
Glucagon▶	TNFα
IL-6	

Rat Myokine

(Cat. No. RMYOMAG-88K)

BDNF	IL-15
Erythropoietin (EPO)	Irisin
FGF-21	LIF
Follistatin-like Protein 1 (FSTL1)	Myostatin/GDF8
Fractalkine/CX3CL1	Osteonectin (OSTN)/Musclin
IL-6	Osteonectin/SPARC

Rat Pituitary

(Cat. No. RPTMAG-86K)

ACTH	LH
BDNF	Prolactin
FSH	TSH
GH	

Rat Stress Hormone ■

(Cat. No. RSHMAG-69K)

ACTH	Melatonin^
Corticosterone^	

Multi-Species Hormone ■ ^

(Cat. No. MSHMAG-21K)

Cortisol	Testosterone
Estradiol	T3
Progesterone	T4

Rat Thyroid ■ **BSL2**

(Cat. No. RTHYMAG-30K)

T3^	TSH
T4^	

Cardiovascular**Rat Cardiac Injury Panel 1**

(Cat. No. RCI1MAG-87K)

Cardiac Troponin I (cTnI)	FABP3
Cardiac Troponin T (cTnT)	Follistatin-like Protein 1 (FSTL1)
Creatine Kinase Muscle (CKM)	Myosin Light Chain 3 (MYL3)
	TIMP-1

Rat Vascular Injury Panel 1 (Serum/Plasma samples)

(Cat. No. RV1MAG-26K)

Caveolin-1	IL-6
Connective Tissue Growth Factor (CTGF)	MCP-1/ CCL2
KC/GRO/CINC-1/CXCL1	PAI-1 (total)
	TIMP-1
	TNFα
	VEGF

Rat Vascular Injury Panel 2 (Serum/Plasma samples)

(Cat. No. RV2MAG-26K)

Adiponectin	sICAM-1
sE-Selectin	

Rat Vascular Injury Panel 3 (Serum/Plasma samples)

(Cat. No. RV3MAG-26K)

α-1-Acid Glycoprotein (AGP)	Haptoglobin
α-2-Macroglobulin (A2M)	

Bone**Rat Bone Panel 1 (Serum/Plasma samples)**

(Cat. No. RBN1MAG-31K)

ACTH	Leptin
DKK1	Osteoprotegerin (OPG)
FGF-23	PTH
Insulin	Sclerostin (SOST)

Neuroscience**Rat Neuropeptide** ■ ^

(Cat. No. RMNPMAG-83K)

α-MSH	Oxytocin
β-Endorphin	Substance P
Neurotensin	

Toxicity**Rat Kidney Toxicity Panel 1 (Urine samples)**

(Cat. No. RKTX1MAG-37K)

Clusterin	Osteopontin (OPN)
GSTα^	TIMP-1
IP-10/CXCL10	VEGF-A
KIM-1	

Rat Kidney Toxicity Panel 2 (Urine samples)

(Cat. No. RKTX2MAG-37K)

α-1-Acid Glycoprotein (AGP)	Cystatin C
Albumin^	EGF
β-2-Microglobulin	NGAL/Lipocalin-2

Rat Liver Injury

(Cat. No. RLI1MAG-92K)

5'NT/CD73	GSTα
ARG1	SDH
GOT1	

Vet Medicine and Animal Health Research

Learn more about our biomarker detection multiplex immunoassays for laboratory, companion and agricultural animal research at sigmaaldrich.com/vetmed.

OTHER SPECIES

Immunology

Bovine Cytokine/Chemokine Panel 1

- 🕒 (Cat. No. BCYT1-33K)
 15 (Cat. No. BCYT1-33K-PX15)

IFN γ	IL-36RA/IL-1F5
IL-1 α	IP-10/CXCL10
IL-1 β	MCP-1/CCL2
IL-4	MIP-1 α /CCL3
IL-6	MIP-1 β /CCL4
IL-8/CXCL8	TNF α
IL-10	VEGF-A
IL-17A/CTLA8	

Canine Cytokine/Chemokine

- 🕒 (Cat. No. CCYTOMAG-90K)
 15 (Cat. No. CCYTMG-90K-PX13)

GM-CSF	IL-15
IFN γ	IL-18
IL-2	IP-10/CXCL10
IL-6	KC-like
IL-7	MCP-1/CCL2
IL-8/CXCL8	TNF α
IL-10	

Chicken Cytokine/Chemokine

NEW

- 🕒 (Cat. No. GCYT1-16K)
 12 (Cat. No. GCYT1-16K-PX12)
 12 (Cat. No. GCYT1-16K-PXBK12)

IFN α	IL-21
IFN γ	M-CSF
IL-2	MIP-1 β /CCL4
IL-6	MIP-3 α /CCL20
IL-10	RANTES/CCL5
IL-16	VEGF

Equine Cytokine/Chemokine

- 🕒 (Cat. No. EQCYTMAG-93K)
 23 (Cat. No. EQCYTMG-93KPX23)
 23 (Cat. No. EQCTMG93KPX23BK)

Eotaxin/CCL11	IL-6
FGF-2/FGF-basic	IL-8/CXCL8
Fractalkine/CX3CL1	IL-10
G-CSF	IL-12 (p70)
GM-CSF	IL-13
GRO	IL-17A/CTLA8
IFN γ	IL-18
IL-1 α	IP-10/CXCL10
IL-1 β	MCP-1/CCL2
IL-2	RANTES/CCL5
IL-4	TNF α
IL-5	

Feline Cytokine/Chemokine ▼

- 19 (Cat. No. FCYTMAG-20K-PMX)

NON-CONFIGURABLE KIT

sFAS/TNFRSF6	IL-13
Flt3 Ligand	IL-18
GM-CSF	KC/GRO/CINC-1/CXCL1
IFN γ	MCP-1/CCL2
IL-1 β	PDGF-BB
IL-2	RANTES/CCL5
IL-4	SCF
IL-6	SDF-1/CXCL12
IL-8/CXCL8	TNF α
IL-12 (p40)	

Ovine Cytokine/Chemokine Panel 1

- 🕒 (Cat. No. SCYT1-91K)
 14 (Cat. No. SCYT-91K-PX14)

IFN γ	IL-17A/CTLA8
IL-1 α	IL-36RA/IL-1F5
IL-1 β	IP-10/CXCL10
IL-4	MIP-1 α /CCL3
IL-6	MIP-1 β /CCL4
IL-8/CXCL8	TNF α
IL-10	VEGF-A

Porcine Cytokine/Chemokine

- 🕒 (Cat. No. PCYTMAG-23K)
 13 (Cat. No. PCYTMG-23K-13PX)

GM-CSF	IL-6
IFN γ	IL-8/CXCL8
IL-1 α	IL-10
IL-1 β	IL-12
IL-1Ra	IL-18
IL-2	TNF α
IL-4	

Multi-Species TGF β – Singleplex

- (Cat. No. TGFBMAG-64K-01)

TGF β 1

Multi-Species TGF β – 3 Plex ▼

- (Cat. No. TGFBMAG-64K-03)

NON-CONFIGURABLE KIT

TGF β 1 TGF β 3
 TGF β 2

Metabolism/Endocrinology

Canine Gut Hormone **BSL2**

- (Cat. No. CGTMAG-98K)

Amylin (total) ▶	Insulin
Ghrelin (active) ▶	Leptin
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active) ▶	PYY (total)
Glucagon	

Canine Pituitary Expanded Panel

- (Cat. No. CANPIT-96K)

ACTH	LH
FSH	Prolactin
GH	TSH

Multi-Species Hormone ■ ^

- (Cat. No. MSHMAG-21K)

Cortisol	Testosterone
Estradiol	T3
Progesterone	T4

Toxicity

Canine Kidney Toxicity Expanded Panel 1 (Urine samples)

- (Cat. No. CKT1MAG-97K)

Clusterin	MCP-1/CCL2
Cystatin C	NGAL/Lipocalin-2
IL-8/CXCL8	Osteopontin (OPN)
KIM-1	

Canine Kidney Toxicity Panel 2 (Urine samples)

- (Cat. No. CKT2MAG-97K)

Albumin	RBP4
β -2-Microglobulin	TFF-3

MILLIPLEX® 图例说明

- + 不可混合在一起的因子：
 - 活性蛋白与总蛋白
 - 游离蛋白与总蛋白
- ◆ 在有◆标示试剂盒货号中含有的因子
- ▼ 仅提供微球预混包装

- ▲ 在血清/血浆中，这些分析物不能与本试剂盒中的其他分析物同时检测
- ▶ 样品收集过程中需要加入蛋白酶抑制剂
- 需要对样本中蛋白进行抽提
- ** 试剂盒中不包含标准品和质控品，相对定量

SF 试剂盒内不含血清基质

- 仅可检测血清血浆样本
- ★ 仅可检测组织样本
- ^ 竞争法试剂盒
- 🕒 可提供定制预混试剂盒
- 分析物与本试剂盒中其他样本相比稀释比例不同
- ⊙ 血清样本中无法检测
- BSL2** 需要在BSL2实验室中操作

Cell Signaling MILLIPLEX® Assays

Uncover how your cells communicate

We offer three kit formats in our MILLIPLEX® Cell Signaling portfolio to meet your diverse needs:

1. Phosphoprotein or total protein (or mixed) multiplex assays (≥ 3 -plex)
2. Same protein phosphoprotein and total protein in the same assay (2-plex)
3. Singleplex MAPmate™ kits you can use as loading controls in multiplex kits

Our Cell Signaling multiplex kits give you the gift of time and sample, for example:

10 Proteins 12 Samples	MILLIPLEX® Assays	Western Blots
	Number of 96-well plates or acrylamide gels Number of samples per plate or gel Total data points per plate or gel Total time to result Amount of protein required (μg)	 12 (>40 samples can be measured in duplicate) 120 (>400 data points can be measured per plate) 2.5 hours + overnight incubation (~18 hr) 1-25 μg of total protein per well (all 10 proteins measured in same sample)

Akt/mTOR (Phosphoprotein) – 11 Plex

(Cat. No. 48-611MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated
Akt/PKB		√ (Ser473) H, M, R
GSK3 α		√ (Ser21) H, M, R
GSK3 β		√ (Ser9) H, M, R
IGF1R		√ (Tyr1135/1136) H, M
IR		√ (Tyr1162/1163) H
IRS1		√ (Ser636) H, M, R
mTOR		√ (Ser2448) H, M, R
p70S6 Kinase		√ (Thr389/412) H, M, R
PTEN		√ (Ser380) H, M, R
RPS6		√ (Ser235/236) H, M, R
TSC2		√ (Ser939) H, M, R

Akt/mTOR (Total) – 11 Plex

(Cat. No. 48-612MAG) AB2 ▼ **NON-CONFIGURABLE KIT**

Analyte	Total	Phosphorylated
Akt/PKB	√	H, M, R
GSK3 α	√	H, M, R
GSK3 β	√	H, M, R
IGF1R	√	H, M, R
IR	√	H, R
IRS1	√	H, M, R
mTOR	√	H, M, R
p70S6 Kinase	√	H, M, R
PTEN	√	H, M, R
RPS6	√	H, M, R
TSC2	√	H, M, R

- 能与其他2-plex试剂盒混合
- * 不能与其它磷酸化Akt组合
- ▼ 试剂盒仅提供预混包装

AB1: 分析缓冲液 1

AB2: 分析缓冲液 2

BSL2 需要在BSL2实验室中操作

H Human

M Mouse

R Rat

Early Apoptosis – 7 Plex(Cat. No. 48-669MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt/PKB		√ (Ser473)	H, M, R
BAD		√ (Ser112)	H, M
Bcl-2		√ (Ser70)	H
Active Caspase 8	√		H
Active Caspase 9	√		H
JNK/SAPK1		√ (Thr183/Tyr185)	H, M, R
p53		√ (Ser46)	H

Human Bcl-2 Family Apoptosis Panel 1 - 6 Plex(Cat. No. 48-682MAG) AB1 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
BAD	√	√ (Ser112)	H
BAX	√		H
Bcl-xL/BAD (interaction)	√		H
BIM	√		H
Mcl-1/BIM (interaction)	√		H

Human Bcl-2 Family Apoptosis Panel 2 - 4 Plex(Cat. No. 48-683MAG) AB1 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Bcl-2	√		H
Bcl-xL	√		H
Mcl-1	√		H
NOXA/Mcl-1 (interaction)	√		H

Human DNA Damage/Genotoxicity – 7 Plex(Cat. No. 48-621MAG) AB1 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
ATR	√		H
Chk1		√ (Ser345)	H, M, R
Chk2		√ (Thr68)	H
H2A.X		√ (Ser139)	H, M, R
MDM2	√		H, M, R
p21	√		H
p53		√ (Ser15)	H

MAPK/SAPK (Phosphoprotein) – 10 Plex(Cat. No. 48-660MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
ATF2		√ (Thr71)	H, M
c-Jun		√ (Ser73)	H, M, R
Erk/MAPK 1/2		√ (Thr185/Tyr187)	H, M, R
HSP27		√ (Ser78)	H
JNK/SAPK1		√ (Thr183/Tyr185)	H, M, R
MEK1		√ (Ser222)	H, M, R
MSK1		√ (Ser212)	H, M
p38/SAPK2A/B		√ (Thr180/Tyr182)	H, M, R
p53		√ (Ser15)	H
STAT1		√ (Tyr701)	H, M

Human RTK (Phosphoprotein)**(Choose Analytes that Meet your Needs)**(Cat. No. HPRTKMAG-01K) AB1 **BSL2**

Analyte	Total	Phosphorylated	
c-Kit		(pan Tyr)	H
c-Met/HGFR		(pan Tyr)	H
ErbB1/EGFR		(pan Tyr)	H
ErbB2/HER2		(pan Tyr)	H
ErbB3/HER3		(pan Tyr)	H
ErbB4/HER4		(pan Tyr)	H
FGFR1		(pan Tyr)	H
Flt3		(pan Tyr)	H
IGF1R		(pan Tyr)	H
IR		(pan Tyr)	H
M-CSFR		(pan Tyr)	H
PDGFRα		(pan Tyr)	H, M, R
PDGFRβ		(pan Tyr)	H
TIE1		(pan Tyr)	H
TIE2		(pan Tyr)	H
VEGFR1/Flt-1		(pan Tyr)	H
VEGFR2/KDR/Flk-1		(pan Tyr)	H
VEGFR3/Flt-4		(pan Tyr)	H, M, R

Multi-Pathway (Phosphoprotein) – 9 Plex(Cat. No. 48-680MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt/PKB		√ (Ser473)	H, M, R
CREB		√ (Ser133)	H, M, R
Erk/MAPK 1/2		√ (Thr185/Tyr187)	H, M, R
JNK/SAPK1		√ (Thr183/Tyr185)	H, M, R
NFκB		√ (Ser536)	H, M
p38/SAPK2A/B		√ (Thr180/Tyr182)	H, M, R
p70S6 Kinase		√ (Thr389/412)	H, M, R
STAT3		√ (Ser727)	H, M, R
STAT5A/B		√ (Tyr694/699)	H, M, R

Multi-Pathway (Total) – 9 Plex(Cat. No. 48-681MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt/PKB	√		H, M, R
CREB	√		H, M, R
Erk/MAPK 1/2	√		H, M, R
JNK/SAPK1	√		H, M, R
NFκB	√		H, M, R
p38/SAPK2A/B	√		H, M, R
p70S6 Kinase	√		H, M, R
STAT3	√		H, M, R
STAT5A/B	√		H, M, R

NFκB – 6 Plex(Cat. No. 48-630MAG) AB1 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
c-Myc	√		H
FADD		√ (Ser194)	H
IκBα		√ (Ser32)	H
IKKα/β		√ (Ser177/181)	H
NFκB		√ (Ser536)	H, M
TNFR1	√		H

Protein Translation – 6 Plex(Cat. No. 48-655MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
eIF2a		√ (Ser51)	H, M, R
eIF-4B		√ (Ser422)	H, M, R
eIF-4E		√ (Ser209)	H, M, R
eIF-4G		√ (Ser1108)	H, M, R
4E-BP1	√	√ (Thr37/46)	H, M, R

Human Ras-Raf Oncoprotein – 6 Plex(Cat. No. 48-684MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **NEW** **BSL2**

Analyte	Total	Phosphorylated	
BRAF		√ (Ser446)	H, M, R
CRAF		√ (Ser338)	H, M, R
MEK1		√ (Ser217/Ser221)	H, M, R
Ras	√		H, M, R
RasG12D	√		H
RasG12V	√		H

Src Family Kinase Active Site (Phosphoprotein) – 8 Plex(Cat. No. 48-650MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Blk		√ (Tyr389)	H
Fgr		√ (Tyr412)	H, R
Fyn		√ (Tyr420)	H, M, R
Hck		√ (Tyr411)	H, M
Lck		√ (Tyr394)	H, M, R
Lyn		√ (Tyr397)	H, R
Src		√ (Tyr419)	H, M, R
Yes		√ (Tyr421)	H, M, R

STAT (Phosphoprotein) – 5 Plex(Cat. No. 48-610MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
STAT1		√ (Tyr701)	H, M
STAT2		√ (Tyr690)	H
STAT3		√ (Tyr705)	H, M, R
STAT5A/B		√ (Tyr694/699)	H, M, R
STAT6		√ (Tyr641)	H

T-Cell Receptor (Phosphoprotein) – 7 Plex(Cat. No. 48-690MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
CD3ε		√ (pan Tyr)	H
CREB		√ (Ser133)	H, M, R
Erk/MAPK 1/2		√ (Thr185/Tyr187)	H, M, R
LAT		√ (pan Tyr)	H
Lck		√ (pan Tyr)	H, M, R
Syk		√ (pan Tyr)	H
ZAP-70		√ (pan Tyr)	H

TGFβ – 6 Plex(Cat. No. 48-614MAG) AB2 ▼ **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt/PKB		√ (Ser473)	H, M, R
Erk/MAPK 1/2		√ (Thr185/Tyr187)	H, M, R
SMAD2		√ (Ser465/467)	H, M, R
SMAD3		√ (Ser423/425)	H, M, R
SMAD4	√		H, M, R
TGFβRII	√		H

Akt Phospho/Total – 2 Plex(Cat. No. 48-618MAG) AB2 ▼ * ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt/PKB		√ (Ser473)	H, M, R
Akt/PKB	√		H, M, R

Akt1 Phospho/Total – 2 Plex(Cat. No. 48-631MAG) AB2 ▼ * ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt1		(Ser473)	H, M, R
Akt1	√		H, M, R

Learn more about our Ras-Raf Oncoprotein Kit

Download our **AACR 2020 poster** for more information about this unique multiplex kit!

Akt2 Phospho/Total – 2 Plex(Cat. No. 48-632MAG) AB2 ▼ * ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt2		(Ser474)	H, M, R
Akt2	√		H, M, R

Akt3 Phospho/Total – 2 Plex(Cat. No. 48-633MAG) AB2 ▼ * ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Akt3		(Ser472)	H, M, R
Akt3	√		H, M, R

CREB Phospho/Total – 2 Plex(Cat. No. 48-628MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
CREB		√ (Ser133)	H, M, R
CREB	√		H, M, R

Erk/MAPK 1/2 Phospho/Total – 2 Plex(Cat. No. 48-619MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
Erk/MAPK 1/2		√ (Thr185/Tyr187)	H, M, R
Erk/MAPK 1/2	√		H, M, R

IRS1 Phospho/Total – 2 Plex(Cat. No. 48-626MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
IRS1		√ (Ser636)	H, M
IRS1	√		H, M, R

JNK Phospho/Total – 2 Plex(Cat. No. 48-622MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
JNK/SAPK1		√ (Thr183/Tyr185)	H, M, R
JNK/SAPK1	√		H, M, R

mTOR Phospho/Total – 2 Plex(Cat. No. 48-625MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
mTOR		√ (Ser2448)	H, M, R
mTOR	√		H, M

p38 Phospho/Total – 2 Plex(Cat. No. 48-624MAG) AB1 or AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
p38/SAPK2A/B		√ (Thr180/Tyr182)	H, M, R
p38/SAPK2A/B	√		H, M, R

STAT3 Phospho/Total – 2 Plex(Cat. No. 48-623MAG) AB2 ▼ ●● **NON-CONFIGURABLE KIT** **BSL2**

Analyte	Total	Phosphorylated	
STAT3		√ (Tyr705)	H, M, R
STAT3	√		H, M, R

MAPmate™ Singleplex 内参蛋白

将MAPmate™ 试剂加入到现有的MILLIPILEX® 细胞信号通路试剂盒中作为内参使用。但是如果需要额外的缓冲液或者检测试剂盒 (48-602MAG)，请联系当地销售人员或者技术支持400-620-3333进行咨询。

MAPmate™ Kits	Species Homology (Buffer)	Cat. No.
β-Tubulin (total) MAPmate™	H, M, R (AB1 & AB2)	46-713MAG
GAPDH (total) MAPmate™	H (AB2)	46-667MAG

- 能与其他2-plex试剂盒混合
- * 不能与其它磷酸化Akt组合
- ▼ 试剂盒仅提供预混包装

AB1: 分析缓冲液 1**AB2:** 分析缓冲液 2**BSL2** 需要在BSL2实验室中操作**H** Human**M** Mouse**R** Rat

MILLIPLEX® 其他定制因子

Analyte	Species (Sample Types)
α-1 Antichymotrypsin	H (S/P)
α-2 Antiplasmin	H (S/P)
AGP (α 1-Acid Glycoprotein)	H (U)
Akt/PKB (Ser473)	H, M, R (Lys)**
Akt/PKB (total)	H, M, R (Lys)**
Angiopoetin-1	H (S/P, T)
Anti-Cardiolipin antibody IgA	H (S/P)
Anti-EBV VCA IgG	H (S/P)
Anti-Phosphatidylserine IgG, IgM	H (S/P)
Anti-β2 Glycoprotein IgA, IgG, IgM	H (S/P)
Apolipoprotein A-IV	H (S/P)
APRIL	H (S/P)
Arginase 1	M (S/P)
AXL (s)	M, R (S/P)
BAD (Ser112)	H, M (Lys)**
BAFF	H (S/P)
BCMA (B-cell Maturation Antigen)	H (S/P)
BMP-9	M, R (S/P)
BRD4	H, M, R (Lys)
Calprotectin/S100A8	H (S/P)
Calprotectin/S100A8/S100A9 Heterodimer	H (S/P)
Caspase 3 (Active)	H, M (Lys)**
CBP	H, M, R (Lys)
CD13 Aminopeptidase N	H (S/P)
CD163 (s)	H (S/P)
Ceruloplasmin	H (U)
Cleaved PARP (total)	H (Lys)**
Collagen 1	H (Mul)
CSTB (Cystatin B)	H (S/P)
Elafin	H (S/P)
ERK/MAPK 1/2 (Thr185/Tyr187)	H, M, R (Lys)**
ERK/MAPK 1/2 (total)	H, M, R (Lys)**
Galectin-1	H, M, R (S/P)
Galectin-3	M, R (S/P)
Gas-6	H, M, R (S/P)
Granzyme A	M (S/P)
Gremlin	M, R (S/P)

Analyte	Species (Sample Types)
GRP78	H (S/P)
HGFR/cMET	M, R (S/P)
I-FABP	H (S/P)
IGF-1	M, R (S/P)
IL-18	M, R (S/P)
IL-33R/ST2 (Suppressor of Tumorigenicity 2)	H (S/P)
JNK/SAPK1 (Thr183/Tyr185)	H, M (Lys)**
JNK/SAPK1 (total)	H, M (Lys)**
LCAT (Lecithin-cholesterol Acyltransferase)	H (S/P)
LPGDS (Lipocalin like prostaglandin D synthase)	H (U)
Lysozyme C	H (S/P)
MIP-1γ	M, R (S/P)
mTOR (Ser2448)	H, M, R (Lys)**
mTOR (total)	H, M, R (Lys)**
p300	H, M, R (Lys)
p38/SAPK2A/B (Thr180/Tyr182)	H, M, R (Lys)**
p38/SAPK2A/B (total)	H, M, R (Lys)**
Periostin	M, R (S/P)
PODXL	M, R (S/P)
Prealbumin (Transthyretin)	H (S/P)
Procalcitonin	H, M, R (S/P)
Semaphorin 3A	H (Sup)
SM22/Transgelin	H (S/P)
STAT1 (total)	H, M (Lys)**
STAT1 (Tyr701)	H, M (Lys)**
sTM (s Thrombomodulin)	H (S/P)
Tenascin C	M, R (S/P)
Thyroxine Binding Globulin	H (S/P)
TRAIL	M, R (S/P)
Transferrin	H (U)
Vasopressin	M, R (P)
VE Cadherin/Cadherin 5	H (S/P)
Vitronectin	M, R (S/P)
Wnt-3a	H (S/P, Sup, Lys)
Zinc-α-2 Glycoprotein	H (S/P)

Species Key

H Human
M Mouse
R Rat

Sample Type Key

Lys Cell/Tissue Lysates
Mul Multiple Types
S/P Serum/Plasma
Sup Cell/Tissue Culture Supernatants
T Tears
U Urine

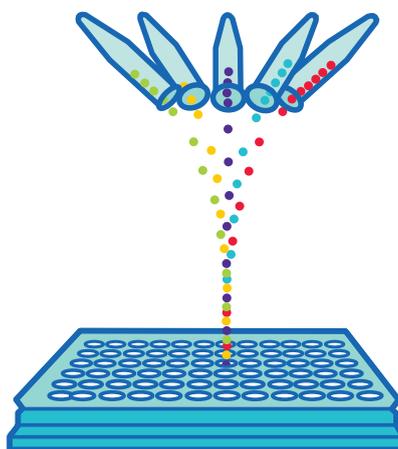
Notations

s Soluble analyte
** No standard/QC; levels reported as MFIs

MILLIPLEX® 实验指南

当您在收到MILLIPLEX® 试剂盒后，对实验操作流程及注意事项有疑问，请下载并参考MILLIPLEX® 操作指南。

- MILLIPLEX® 样本收集与准备
- 细胞信号通路分析
- 免疫分析检测流程
- 手持磁力架清洗方法
- Belysa™ 免疫检测数据分析软件



扫描下方二维码，关注“默克生命科学”公众号，即可获取相关资料



《Cell》《Nature》云集，MILLIPLEX® 双月刊杂志，免费订阅中

关于生物标注物的你，或许在苦苦烦恼文章思路、实验方案，MILLIPLEX® 双月刊杂志可以助您一臂之力。我们将对近两个月的高分文章、有趣文章进行解读，在您的研究之路上，助您一臂之力！



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愈见清晰

默克 您的免疫检测专家 想您所想 助您见所未见

我们的免疫检测试剂盒开发生产具有严格的质控标准，让您对实验数据更有信心

严格的开发试剂盒过程

特异性

- 抗体特异性检测：检测在样本中被忽略的抗体和其他蛋白或者分析物之间的交叉反应
- 实验特异性检测：保障每一个因子在单独检测和多重检测时候的数据一致性

方法验证

- 比较同一种因子在不同的试剂盒中 (MILLIPLEX®, ELISA或SMC™ assays), 以及与其他供应商试剂盒中同一种因子的表现。确保为您提供最佳表现的试剂盒

反应缓冲液优化

- 优化Assay buffer和微球稀释液，进而提高在基质中抗体与分析物的结合

检测灵敏度

- 每一种蛋白的检测范围和最小检测浓(minDCs)都可以在说明书中找到，这些数据是基于我们真实的样本中检测得到的数据

在样本基质中的表现

- 试剂盒在特定的样本类型，例如血清或者血浆中都已经过验证，我们也会提供优化的天然血清基质模拟样本中的环境

可重复的结果值得您信任

稳定性

- 所有的试剂盒都经过严苛的运输稳定性的测试
- 测试样本在一定温度的范围内，即反复冻融后的待测因子的稳定性；如果样本有特殊的处理条件，会在说明书中进行标注

准确性

- 板内和板间误差在10-15%范围内
- 准确性评定范围通常是 $\pm 20\%$

线性稀释

- 对每种分析物在三种浓度下进行样品中的峰回收率；稀释后的样品结果必须与样品中分析物的浓度成正比，差异一般在 $\pm 20\%$ 以内

批次间稳定性

- 有“金标准”的校准样本被用作所有未来生产所有产批次的参考

专家技术支持

- 我们的销售专家、技术支持科学家、客户支持和免疫分析开发团队将在您需要的时候，为您提供专业的支持服务。

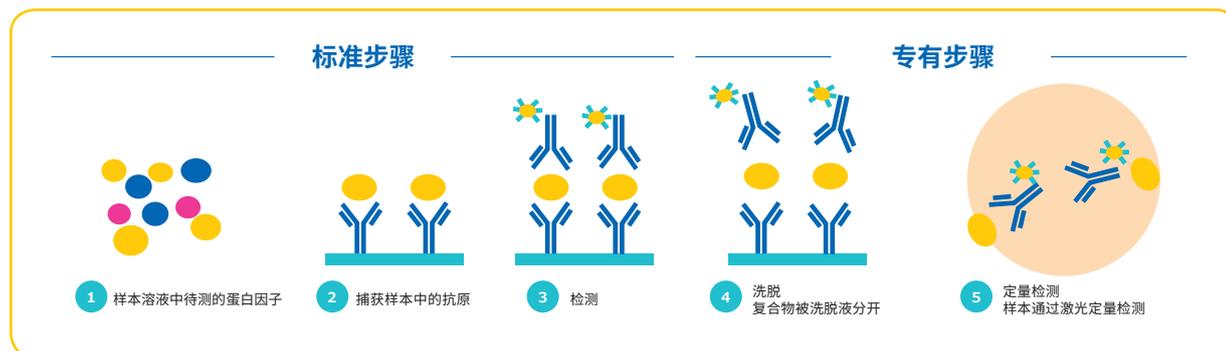
我们会帮助您选择合适的平台和实验满足您的需求，在未来我们也会与您一同合作满足您对实验平台以及数据质量的需求

SMC™ 超高灵敏度单分子免疫检测技术

单分子计数(SMC™)：低背景 + 增强检测信号 = 飞摩尔级检测

SMC™ 技术可以为您提供超灵敏的免疫因子分析性能，同时遵循类似于传统ELISA技术的工作流程，以保证实验的稳定性，如下图所示。通过结合一个独特的分析洗脱步骤和SMCxPRO™ 稳定的数字计数功能。

与传统的免疫分析技术相比，SMC™ 技术实现了更好的信噪比。因此，SMC™ 技术是一个在试剂盒与仪器完整的系统上为您提供从低水平到高水平蛋白表达的增强量化。



Steps 2-3

传统的“三明治”抗体夹心反应

Step 4

专有的洗脱步骤帮助荧光素标记的检测抗体从免疫复合物中解离下来

Step 5

在SMCxPRO™ 仪器中，信号均来自于上一步中解离的荧光染料，通过特定的信号收集器收集所有的荧光信号并记录

数字化定量提高检测灵敏度和动态范围

SMCxPRO™ 为捕获所有背景阈值以上的数字计数信号的总和。SMCxPRO的算法为计算单个标准的时间内顺序信号波长上的数字计数信号总和。因此，蛋白分子的数字信号计数提高了测定灵敏度，并扩大了测定的动态范围，超越了传统方法所能达到的范围。

免疫检测的验证标准

免疫检测最终定量表现综合验证评价标准

- 定量下限:** 标准曲线最低点CV<20%，准确度在期望值20%以内
- 实验检测板间和板内内的精度:** 板内和板间误差在20%范围内
- 回收率:** 可接受的回收率范围为80-120% 掺入回收率:至少10个样本具有可接受的掺入回收率，回收率在80%-120%之间
- 稀释线性:** 实验结果要求至少有20%出值率
- 实验对照组:** 至少有10个来自个体健康供体的样本作为对照，用于评估生物标志物水平不同批次间检测的数据差异

SMC™ 超高灵敏度免疫检测试剂盒

Analyte	LLoQ (pg/mL) ¹	Median Endogenous (pg/mL) ²	Species ³	Sample Type ⁴	Sample volume (µL)	MTO or STOCK	Cat. No.
Akt1 (Ser473)	0.98	NA	H, M, R	L	varies ⁸	MTO	03-0100-01
Akt1 (total)	7.80	NA	H, M, R	L	varies ⁸	MTO	03-0099-01
Amyloid beta 1-40 ^{6,7}	5.86	Normal CSF: 1366; P: 152	H, M, R	C, P	5, 25	STOCK	03-0145-00
Amyloid beta 1-42 ^{6,7}	0.98	Normal CSF: 192; P: 15	H, M, R	C, P	5, 25	STOCK	03-0146-00
BDNF ^{6,7}	0.04	P: 783; S: 410; CSF: 0.13	H	C, P, S	100, 1, 1	STOCK	03-0171-00
cTnI ^{6,7}	0.69	P: 3.04; S: 3.02	H, Cy, R, C, GP	P, S	100	STOCK	03-0154-00
G-CSF	0.08	17	H	P	10	MTO	03-0047-00
GLP-1 (active)	0.40	3.46	H, M, R, C	P	100	MTO	03-0024-03
GLP-1 (total)	0.39	17.8	H, M, R, C	P	20	MTO	03-0025-06
Glucagon ^{6,7}	0.78	44	H, M, R	P	10	STOCK	03-0153-00
GM-CSF	0.02	0.2	H	P	100	MTO	03-0067-00
IFN-α ^{26,7}	0.031	P: 0.08; S: 0.08	H	P, S	100	STOCK	03-0186-00
IFN-β1 NEW	0.15	P: 0.35; S: 0.64	H	P, S	50	STOCK	03-0191-00
IFN-γ ^{6,7}	0.03	P: 1.4; S: 1.4	H	P, S	25	STOCK	03-0181-00
IL-1α ^{6,7}	0.12	P: 0.09; S: 0.10	H	P, S	100	STOCK	03-0167-00
IL-1β ^{6,7}	0.20	P: 0.11; S: 0.12	H	P, S	100	STOCK	03-0160-00
IL-2	0.05	0.21	H	P, S	100	MTO	03-0051-00
IL-21	0.20	0.53	H	S	50	MTO	03-0014-07
IL-22 ^{6,7}	0.10	P: 1.51; S: 1.52	H	P, S	25	STOCK	03-0162-00
IL-23 ^{6,7}	0.10	P: 0.65; S: 0.46	H	P, S	100	STOCK	03-0157-00
IL-4 ^{6,7}	0.04	P: 0.18; S: 0.18	H	P, S	100	STOCK	03-0161-00
IL-5 ^{6,7}	0.04	P: 0.37; S: 0.30	H	P, S	100	STOCK	03-0168-00
IL-6 ^{6,7}	0.08	P: 0.70; S: 0.69	H	P, S	75	STOCK	03-0155-00
IL-7	0.39	4.91	H	P, S	50	MTO	03-0094-00
IL-8 / CXCL8	0.24	3.6	H	P, S	50	MTO	03-0055-00
IL-10 ^{6,7}	0.10	P: 0.90; S: 0.89	H	P, S	100	STOCK	03-0176-00
IL-12p70 ^{6,7}	0.05	P: 0.29; S: 0.28	H	P, S	100	STOCK	03-0182-00
IL-13 ^{6,7}	0.04	P: 0.37; S: 0.33	H	P, S	100	STOCK	03-0156-00
IL-15	0.10	3.38	H	P, S	100	MTO	03-0058-00
IL-17A/F Heterodimer ^{6,7}	1.17	P: 1.36; S: 3.20	H	P, S	50	STOCK	03-0177-00
IL-17A ^{6,7}	0.07	P: 0.31; S: 0.30	H	P, S	50	STOCK	03-0159-00
IL-17F ^{6,7}	0.20	P: 1.10; S: 1.18	H	P, S	50	STOCK	03-0164-00
IL-18 ^{6,7} NEW	0.09	P: 138; S: 145	H	P, S	10	STOCK	03-0190-00
KIM-1 ⁵	3.91	P: 65; S: 75; U: 147	H	P, S, U	25, 25, 5	MTO	03-0118-00
MCP-1 ^{6,7}	0.15	P: 682; S: 1021	H	P, S	1.56	STOCK	03-0187-00
Tau(Thr181) ^{6,7} NEW	0.94	P: 3.4; S: 2.0; C: 21	H	P, S, C	50, 100, 25	STOCK	03-0184-00
TNFα	0.40	38.6	M	S	25	MTO	03-0108-00
TNFα ^{6,7}	0.20	P: 0.85; S: 0.78	H	P, S	100	STOCK	03-0163-00
TSLP ^{6,7}	1.56	P: 5.04; S: 3.86	H	P, S	100	MTO	03-0172-00
VEGF-A ^{6,7}	0.20	P: 48; S: 50	H	P, S	25	STOCK	03-0180-00
α-Synuclein(Ser129) ^{6,7} NEW	0.1	P: 2.74; S: 1.81; C: 0.64	H	P, S, C	20, 20, 50	STOCK	03-0188-00
SARS-CoV-2 RBD IgG NEW	NA ⁹	NA ⁹	H	P, S	2	STOCK	03-0193-00

¹ LLoQ: Lowest point on standard curve with CV < 20% and accuracy within 20% of expected values.

² Median Endogenous: Minimum of 10 samples from individual donors assessed for ability to quantify baseline biomarker values.

³ Optimized for first species type listed. Other listed species have been tested, but not optimized for peak performance.

Key: H=Human; M=Mouse; R= Rat; GP=Guinea Pig; Cy=Cynomolgus Monkey; C=Canine

⁴ Optimized for use in sample type(s) listed. Key: P=Plasma; S=Serum; L=Lysate; U=Urine; C=Cerebrospinal Fluid (CSF)

⁵ Plate-based assay.

⁶ Assay characteristic data is representative for both Erenna® and SMCxPRO™.

⁷ Streamlined format kit.

⁸ Sample volume varies based on dilution factor selected by user

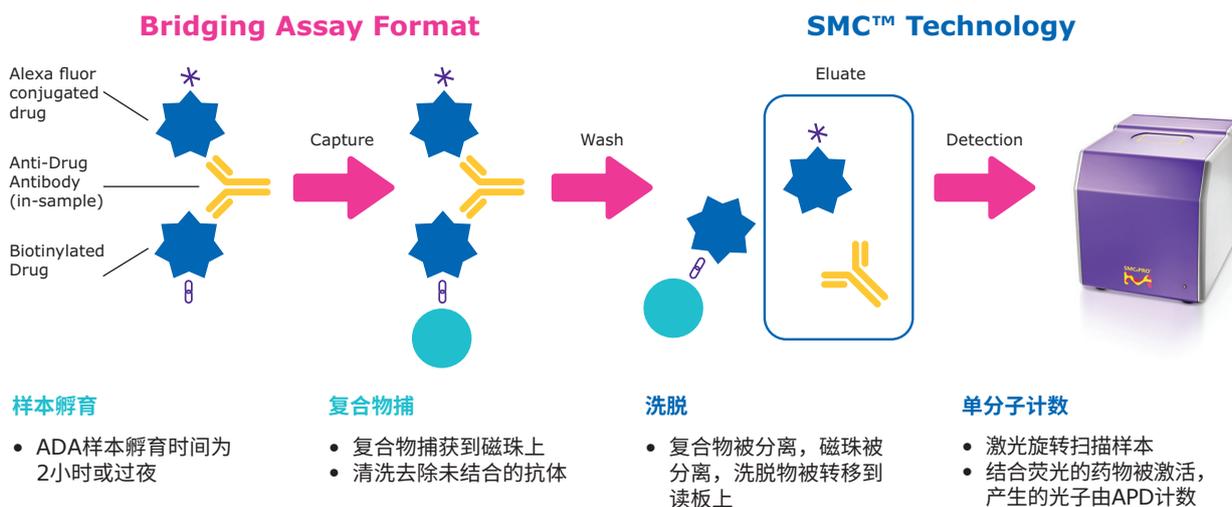
⁹ Qualitative assay

For a complete list of kits qualified on both the SMCxPRO™ and Erenna® instruments, visit sigmaaldrich.com/smc

SMC™ 免疫原性检测

药物发现过程中尽早检测免疫原性反应对确保及时发现潜在免疫反应至关重要。免疫原性检测对开发有效药物，改善临床疗效，保证患者安全，治疗关键疾病方面，可以做出更明确的决定。通过检测抗体(ADA)，特别是IgG、IgM和IgE来评估化合物的免疫原性。FDA的指南继续强调高敏感性的重要性，因为这有助于更早地检测到对患者安全至关重要的初级免疫反应。

利用SMC™ 技术结合我们独特的免疫原性检测试剂盒，研究人员可以开发一种简单、易于设计和验证的同质独立桥接分析。基于SMC™ 微珠检测原理的免疫原性检测试剂盒包含了开发和验证ADA分析所需的所有成分。综合分析发展方案的目的是指导和协助您的药物研发过程。默克经验丰富的应用科学家还可以帮助您实验的设计、验证和培训，帮助您充分利用SMC™ 平台。



描述	货号
SMC™ Immunogenicity Bead Based Assay Development Kit	03-0175-00
384-well Bar-coded Aurora Plate (Case of 32 plates)	ABB2-10160A
384-well Aurora Plate (Case of 32 plates)	ABB2-00160A
One 384-well Aurora plate w/ 3 plate seals	02-1008-00

试剂盒包括大约用于30个板(96孔)的试剂。包括所有用于优化分析的标记试剂和缓冲液。

了解更多SMC™ 技术如何加速您的药物研究请访问：
www.merckmillipore.com/smc-immunogenicity

SMC™

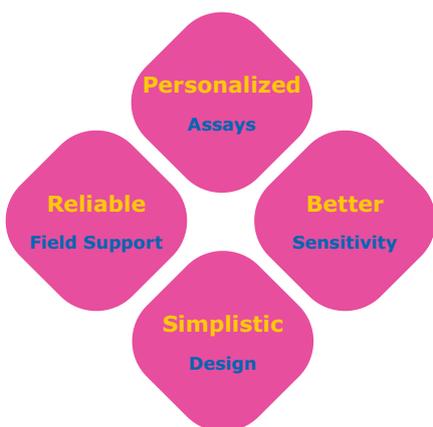
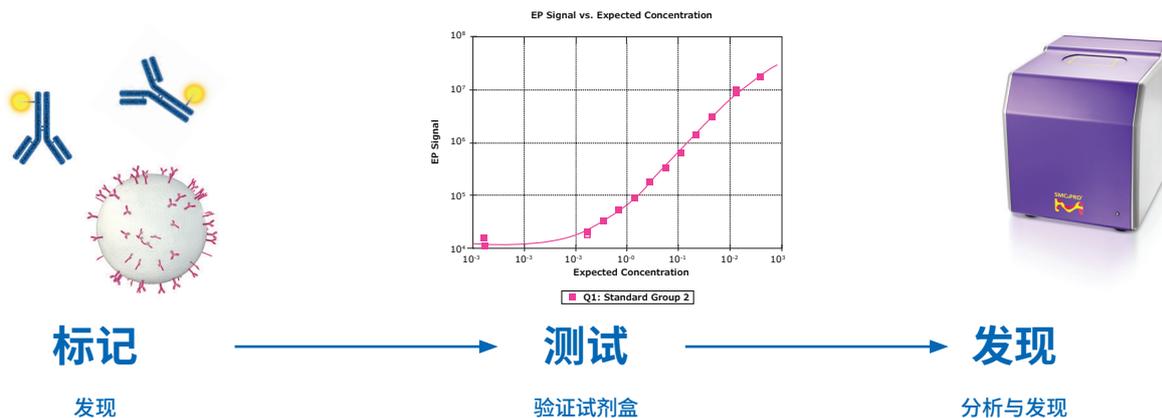
SMC™ (SINGLE MOLECULE COUNTING) ASSAYS

仅供研究使用(RUO) 不用于临床或医疗诊断

定制您的专属SMC™ 超高灵敏度检测试剂盒

利用默克超高灵敏度单分子免疫检测(SMC™)技术, 开发最适合您应用特点的磁珠或平板式试剂盒。默克SMC™ 分析开发和优化试剂盒套装, 提供研发专属试剂盒需要的一切组分, 您可以配合SMCxPRO™ 系统, 建立属于自己的高性能SMC™ 免疫检测试剂盒。使用默克SMC™ 平台定制您所需的独特免疫检测试剂盒, 加快您的研究。

简单几步定制您专属的SMC™ 试剂盒



描述	货号
SMC™ Bead-based Assay Development Kit (5 plates)	03-0178-00
SMC™ Plate-based Assay Development Kit (5 plates)	03-0179-00
SMC™ Assay Development Training – 3 days	96-2024-00
SMC™ Assay Development Training – extra day	96-2025-00
SMC™ Bead Based Immunoassay Development Kit	03-0078-00
SMC™ Plate Based Immunoassay Development Kit	03-0128-00
SMC™ Detection Labeling Kit	03-0076-02
SMC™ Capture Labeling Kit	03-0077-02
SMC™ Assay Buffer Optimization Kit	03-0122-00

SMCxPRO™ 免疫分析系统特点



SMCxPRO™ & 与相关仪器服务	货号
SMCxPRO™ Complete System	70-0100-00
Standard SMCxPRO™ Installation	96-2011-00
SMCxPRO™ System Training - 1 day	96-2022-00
SMCxPRO™ IQ/OQ Service	96-2012-00
SMCxPRO™ PQ Service	96-2013-00

SMCxPRO™ 仪器控制软件符合 21CFR part II 要求，同时兼容实验室LIMS系统

网络/电脑要求

- Microsoft Windows® 7/10 操作系统
- 静态 IP 地址和FTP server xPRO
- xPRO 操作和分析软件（兼容32-或 64-bit）

读板制式

- 384-孔板

分析模式

- 基于微球反应
- 基于平板反应

仪器规格

- 尺寸大小: 406.4 mm H x 355.6 mm W x 444.5 mm D (16"H x 14"W x 17.5"D)
- 重量: 22.7 kg (50 lbs)
- 国标: 230 VAC, 50-60 Hz (Operating range 180-250 V)

安装和培训

- 在实验台上安装设备并完成设备的校准
- 运行辅助设备验证程序以验证仪器性能
- 提供可选的IQ/OQ以及PQ服务

SMCxPRO™ 系统的现场服务支持

- **全方位服务:** 包含一年的不限次数的上门，包含人工，差旅等费用和所有服务的费用。
- **高级服务:** 包含一年一次的预防性维护和一次上门的人工、差旅、服务的费用
- **基础服务:** 包含一年一次的预防性维护保养

仪器性能规格

参数	规格
Slope	>1.2 response/fM ¹
Background	<3 response/fM ¹
Limit of Detection (LoD)	<1 fM
Precision	<10% CV ²
Dynamic Range	>4 logs

¹ Determined from calibrator set: 0-300 fM of 150 kD antibody labeled with fluorophore

² Response measurements from 30fM calibrator, n=20

SMC™ 系统配套洗板机/振荡器

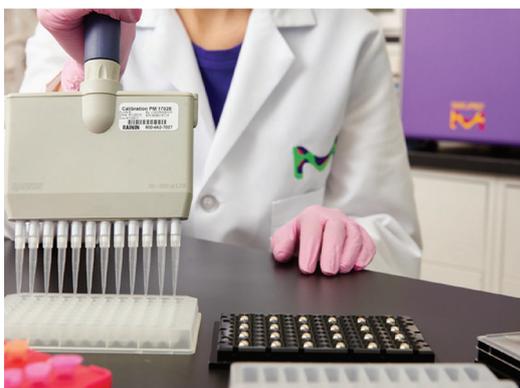
BioTek® 405TS 384孔洗板机



BioTek® 405TS 384孔板清洗仪器:完全自动化洗板系统,能够通过磁力效应分离或者真空过滤两种方式快速高效地清洗整板。该程序是专门配套SMC™ 实验使用。包含一个特别设计的磁力板,预先设定好程序的洗板程序。405™ TS洗板机采用触摸屏设计,易于使用。

描述	货号
BioTek® 405™ TS Magnetic 96-well Washer Complete with Touch Screen and Ultrasonic Cleaning	95-0004-05

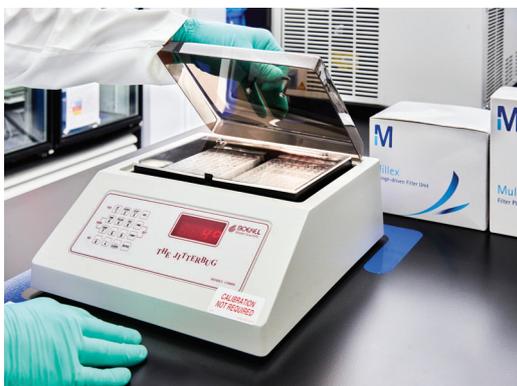
SMC™ 洗板机评估试剂盒



使用我们的SMC™ 洗板机评估试剂盒评估您的SMC™ 洗板机的性能。该试剂盒提供了运行5个平板所需的所有试剂,以简化的工作流程模拟SMC™ 免疫分析步骤。这使您能够全面评估您的洗板机的性能,使您的免疫分析实验更加稳定。

描述	货号
SMC™ Plate Washer Evaluation Kit	03-0165-00

Boekel Scientific Jitterbug,130000,温控型振荡器



具有加热功能的微孔板振荡器,可满足SMC™在特定温度下的孵育条件。

描述	货号
Boekel Jitterbug Heated Microplate Shaker (115V)	70-0009-00
Boekel Jitterbug Heated Microplate Shaker (230V)	70-0009-00A

Millipore® Brand ELISAs

代谢/内分泌 ELISAs

在代谢以及内分泌学研究中，为了使研究更加全面，我们需要通过对多种高灵敏、特异性好并且可靠的特定循环生物标志物进行定量检测。默克生命科学提供的全面针对于研究代谢以及内分泌学的ELISA试剂盒，助力您的疾病研究，帮助您更加清晰的阐明相关治疗研究中的作用机制，建立对于相关疾病，毒性预测等多个方面的早期诊断。

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Cat. No.	Bulk Packaging Cat. No.*
Adiponectin	Human	1.56–200 ng/mL	0.2 ng/mL	10 µL	EZHADP-61K	EZHADP-61BK
Adiponectin (High Molecular Weight)	Human	1.5–200 ng/mL	0.5 ng/mL	10 µL	EZHMWAN-65K	
Adiponectin	Mouse	1–50 ng/mL	0.2 ng/mL	10 µL	EZMADP-60K	EZMADP-60BK
Adiponectin	Rat	3.125–200 ng/mL	0.4 ng/mL	10 µL	EZRADP-62K	
Amylin (active)	Human	1–100 pM	0.7 pM	50 µL	EZHA-52K	
C-Peptide	Human	0.2–20 ng/mL	0.05 ng/mL	10 µL	EZHCP-20K	EZHCP-20BK
C-Peptide	Canine	0.2–10 ng/mL	0.24 ng/mL	25 µL	EZCCP-47K	
C-Peptide 2	Mouse, Rat	25–1600 pM	15.0 pM	20 µL	EZRMCP2-21K	
C-Reactive Protein (CRP)	Human	0.12–10 ng/mL	0.2 ng/mL	2 µL	CYT298	
C-Reactive Protein (CRP)	Rat	4.9–10 ng/mL	2.5 ng/mL	2 µL	CYT294	
FGF-21	Human	31.25–2000 pg/mL	10.0 pg/mL	50 µL	EZHFGF21-19K	
FGF-21	Mouse, Rat	49.4–12,000 pg/mL	10.0 pg/mL	10 µL	EZRMFGF21-26K	
FGF-23	Human	9.9–2400 pg/mL	3.5 pg/mL	50 µL	EZHFGF23-32K	EZHFGF23-32BK
Ghrelin (active)	Human	25–2000 pg/mL	15.0 pg/mL	20 µL	EZGRA-88K	EZGRA-88BK
Ghrelin (active)	Mouse, Rat	25–2000 pg/mL	8.0 pg/mL	20 µL	EZRGRA-90K	
Ghrelin (total)	Human	100–5000 pg/mL	50.0 pg/mL	20 µL	EZGRT-89K	EZGRT-89BK
Ghrelin (total)	Mouse, Rat	0.1–10 ng/mL	0.04 ng/mL	20 µL	EZRGRT-91K	
GIP (total)	Human	8.2–2000 pg/mL	4.2 pg/mL	20 µL	EZHGIP-54K	EZHGIP-54BK
GIP (total)	Mouse, Rat	8.2–2000 pg/mL	4.2 pg/mL	10 µL	EZRMGIP-55K	EZRMGIP-55BK
GLP-1 (active)	Multi-Species	2–100 pM	1.0 pM	100 µL	EGLP-35K	EGLP-35BK
GLP-1 High Sensitivity (active) Δ••	Multi-Species	See data sheet	0.14 pM	50 µL	EZGLPHS-35K	EZGLPHS-35BK
GLP-1 (total)	Multi-Species	4.1–1000 pM	1.0 pM	20–50 µL	EZGLP1T-36K	EZGLP1T-36BK
GLP-2	Multi-Species	1–64 ng/mL	0.3 ng/mL	50 µL	EZGLP2-37K	
Glucagon Δ	Human, Mouse, Rat	0.02–2 ng/mL	0.003 ng/mL	150–300 µL	EZGLU-30K	EZGLU-30BK
Growth Hormone (GH)	Mouse, Rat	0.7–50 ng/mL	0.07 ng/mL	10 µL	EZRMGH-45K	EZRMGH-45BK
Insulin	Human	2–200 µU/mL	1.0 µU/mL	20 µL	EZHI-14K	EZHI-14BK
Insulin	Mouse, Rat	0.2–10 ng/mL	0.1 ng/mL	10 µL	EZRMI-13K	EZRMI-13BK
Insulin (Animal serum free)	Human	2–200 µU/mL	0.85 µU/mL	20 µL	EZHIASF-14K	
Leptin	Canine	0.78–50 ng/mL	0.21 ng/mL	20 µL	EZCL-31K	
Leptin	Mouse	0.2–30 ng/mL	0.05 ng/mL	10 µL	EZML-82K	EZML-82BK
Leptin	Rat	0.2–30 ng/mL	0.08 ng/mL	10 µL	EZRL-83K	EZRL-83BK
Leptin “Dual Range”	Human	0.5–100 ng/mL	0.2 ng/mL	25 µL	EZHL-80SK	EZHL-80BK
Procollagen Type IIA N-Propeptide (PIIANP)	Human	lot dependent	30.0 ng/mL	5 µL	EZPIIANP-53K	
Proinsulin (total)	Human	2–200 pM	0.5 pM	20 µL	EZHPI-15K	EZHPI-15BK
PYY (total)	Human	10–2000 pg/mL	6.5 pg/mL	20 µL	EZHPPYT66K	
Resistin	Human	0.16–5 ng/mL	0.02 ng/mL	20 µL	EZHR-95K	EZHR-95BK
SAA-3	Mouse	0.078–5 µg/mL	0.078 µg/mL	10 µL	EZMSAA3-12K	

* Bulk packaging available on select kits — more environmentally friendly and saves space (10 kit equivalent)

•• Preferred assay for measuring GLP-1 (active)

Δ Chemiluminescent assay

Millipore® Brand ELISAs & RIAs

神经科学 ELISAs

利用可靠的生物标志物定量的方法，探索复杂的，相互关联的神经系统。默克生命科学为您准备了神经肽和神经退行性生物标志物ELISA检测试剂盒，能够精确地定量血清和裂解液中的可溶性生物标记物。默克生命科学依托多年在神经领域丰富的产品经验，为您的神经学研究带来更加全面稳定的数据结果。

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Cat. No.
Amyloid beta 1-40	Human	16-500 pg/mL	4 pg/mL	50 µL	EZHS40
Amyloid beta 1-42	Human	16-500 pg/mL	5 pg/mL	50 µL	EZHS42
Amyloid beta, Set	Human	Contains 1 each of EZHS40 and EZHS42			EZHS-SET
Amyloid beta (Brain) 1-40	Human	16-500 pg/mL	4 pg/mL	50 µL	EZBRAIN40
Amyloid beta (Brain) 1-42	Human	16-500 pg/mL	5 pg/mL	50 µL	EZBRAIN42
Amyloid beta (Brain), Set	Human	Contains 1 each of EZBRAIN40 and EZBRAIN42			EZBRAIN-SET
BDNF (Brain-Derived Neurotrophic Factor)	Human, Rat	7.8-500 pg/mL	7.8 pg/mL	50 µL	CYT306
GFAP (Glial Fibrillary Acidic Protein)	Human, Mouse, Rat	1.5-100 ng/mL	1.5 ng/mL	100 µL	NS830
NPY (Neuropeptide Y)	Human	5-1000 pg/mL	2 pg/mL	50 µL	EZHNPY-25K
NPY (Neuropeptide Y)	Mouse, Rat	0.01-2 ng/mL	0.004 ng/mL	20 µL	EZRMPY-27K
PEDF (Pigment Epithelium-Derived Factor)	Human	0.9-62.5 ng/mL	0.9 ng/mL	50 µL	CYT420
Phosphorylated Neurofilament, (pNF-H) Sandwich	Multi-Species	0.0293-15 ng/mL	0.0585 ng/mL	1-10 µL	NS170
S100B	Human	2.7-2000 pg/mL	1.3 pg/mL	50 µL	EZHS100B-33K

放射性免疫测定法 (RIAs)

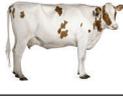
Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Cat. No.
Adiponectin	Human	lot dependent	1 ng/mL	5 µL	HADP-61HK
C-Peptide	Canine	0.156-20 ng/mL	0.15 ng/mL	50 µL	CCP-24HK
C-Peptide	Human	0.1-5 ng/mL	0.1 ng/mL	50 µL	HCP-20K
Ghrelin (active)	Human	lot dependent	7.8 pg/mL	50 µL	GHRA-88HK
Ghrelin (total)	Human	lot dependent	93 pg/mL	50 µL	GHRT-89HK
GLP-1 (active)	Multi-Species	10-500 pM	3 pM	300 µL	GLP1A-35HK
GLP-1 (total)	Multi-Species	10-1000 pM	3 pM	300 µL	GLP1T-36HK
Glucagon	Multi-Species	20-400 pg/mL	20 pg/mL	50 µL	GL-32K
Insulin	Porcine	2-200 µU/mL	2 µU/mL	50 µL	PI-12K
Insulin	Rat	0.1-10 ng/mL	0.1 ng/mL	50 µL	RI-13K
Insulin LisPro	Multi-Species	2.5-250 µU/mL	2.5 µU/mL	100 µL	LPI-16K
Insulin (sensitive)	Rat	0.02-1 ng/mL	0.02 ng/mL	50 µL	SRI-13K
Insulin Specific	Human	2-200 µU/mL	2 µU/mL	50 µL	HI-14K
Leptin	Human	0.5-100 ng/mL	0.5 ng/mL	50-100 µL	HL-81K
Leptin	Multi-Species	1-50 ng/mL	1 ng/mL	50 µL	XL-85K
Proinsulin	Human	2-100 pM	2 pM	100-200 µL	HPI-15K
PYY (3-36)	Human	lot dependent	20 pg/mL	<100 µL	PYY-67HK
PYY (total)	Human	lot dependent	10 pg/mL	<100 µL	PYYT-66HK

Sigma-Aldrich® ELISAs试剂盒

我们为您提供超过1800种的的ELISAs和EIAs试剂盒，涵盖了各种各样的物种和样本类型。从炎症和心血管疾病到代谢和兽医研究，涉及多个研究领域。您可以使用SigmaAldrich.com网站进行搜索，只需输入您需要检测靶标蛋白即可的得到您所需要的ELISA试剂盒。

ELISA试剂盒类型

- 三明治夹心 ELISA
 - 标准化的成品试剂盒
 - 一些试剂盒可能被设计用于检测“裂解液”样本，但是液可以适用于血清，血浆或者细胞培养上清。
- EIA
 - 竞争法 ELISA
 - 细胞磷酸化ELISA
 - 用于细胞裂解液检测磷酸化蛋白

	Cytokines	Metabolic	Cardiovascular	Angiogenesis	Signaling
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓		✓	✓
	✓				
	✓	✓			
	✓				
	✓				
	✓				
	✓				
	✓	✓			

Belysa™ 免疫检测数据分析软件

(Cat. No. 40-122)

默克生命科学最新的专利分析软件可用于从各种默克所有免疫分析平台获得的数据的曲线拟合，检测和比较。Belysa™ 设计是为您提供一个可专业分析而操作简便的软件工具，具备优化曲线拟合和确认数据的完整性，可以同时分析在一个板块或多块板的实验数据。

Belysa™ 免疫数据分析软件的特点与优势

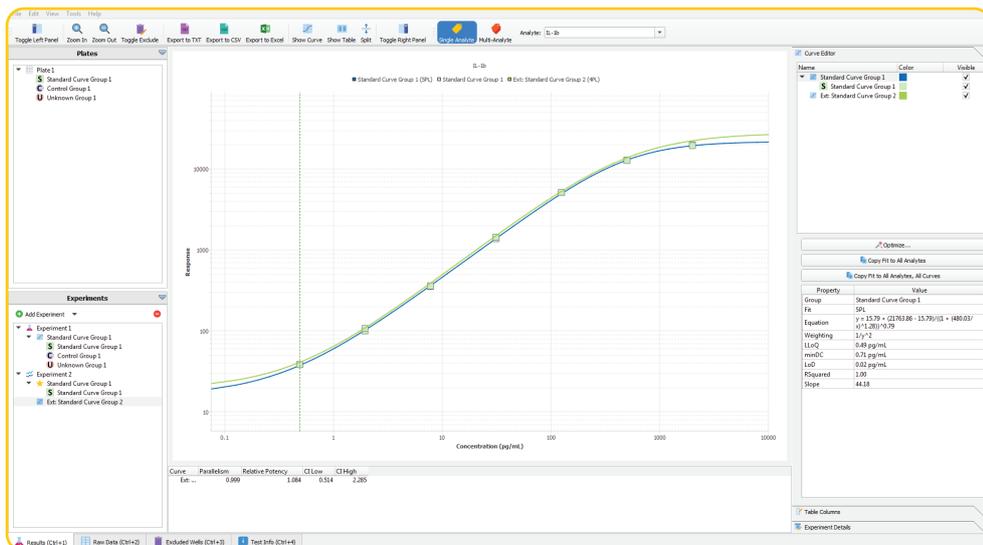
- 软件界面友好，简洁易于操作
- 可选自动或手动曲线拟合 (4pl, 5pl, linear, cubic spline)
- 标准曲线比较工具
- 可基于规则进行数据标记
- 适用于 Luminex® 仪器、SMCxPRO™、ELISA数据分析，兼容 .csv 格式数据文件
- 可在Win7/10运行

数据自动标记

Message	Result SD	Result CV	Response	Response CV
▲ EXT, ND	-	-	15.75	2.2%
▲ BLOQ	0.03	3.6%	35.50	2.0%
▲ BLOQ	0.08	10.4%	32.75	5.4%
▲ BLOQ	0.13	16.4%	33.00	8.6%
▲ BLOQ	0.03	6.0%	27.50	2.6%
▲ BLOQ	0.03	3.8%	34.50	2.0%
▲ BLOQ	0.03	4.2%	32.50	2.2%
▲ BLOQ	0.03	3.4%	36.50	1.9%
▲ BLOQ	0.18	25.9%	30.75	12.6%
▲ BLOQ	0.00	0.0%	23.00	0.0%
▲ BLOQ	0.05	13.3%	23.75	4.5%
▲ BLOQ	0.06	27.1%	21.00	6.7%
▲ BLOQ	0.03	10.5%	22.50	3.1%
▲ BLOQ	0.10	10.7%	35.50	6.0%

例1. Belysa™ 数据注释: 低于LLOQ(黄色三角形), %CV过大(粉红色标记)

标准曲线比较



例2. 两批相同的间隔1年的MILLIPLEX® 检测数据，使用Belysa™ 分析两组标准曲线并进行比较。

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- 合作实验室通过严格的考核获得合作实验室认证。
- 合作实验室严格按照默克规范服务SOP，从样本保存，实验操作到数据分析，生成报告，确保为您提供高质量的数据
- 合作实验室享有专有的默克售后技术服务团队支持，保证为您提供高质量的售后服务

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