



ANTI-CD14, MONOCLONAL ANTIBODY CERTIFICATE OF ANALYSIS

CATALOG NUMBER:	MAB1219	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
HOST/ISOTYPE:	Ms IgG1		
CLONE NAME:	2D-15C/FMC-32		
BACKGROUND:	This antibody belongs to CD14 (assigned by the Third International Workshop on Leucocyte Differentiation Antigens, Oxford, 1986) and reacts with 50 to 55kD protein. It will detect blood monocytes, Kupffer cells, red pulp macrophages, dendritic cells and also "epithelioid" or giant cells within granulomatous tissue, foam cells in renal interstitium and placental dendritic cells and macrophages. Monocytes react with this antibody in the early stages of differentiation, promonocytes and monoblasts do not. Activity is not lost on monocyte/macrophage activation.		
SPECIFICITY:	Reacts with peripheral blood monocytes and weakly with granulocytes. Negative to platelets, erythrocytes and lymphocytes. Sometimes positive for chronic myeloid leukemia (CML) and acute myeloid leukemia (AML). Negative to B-cell chronic lymphocytic leukemia (B-CLL), T-cell chronic lymphocytic leukemia (T-CLL) and common acute lymphoblastic leukemia (CALL). This antibody is an important general cell marker for mononuclear phagocytes in normal samples and a variety of disease states including a proportion of cases of myeloid leukemia. It is suitable for flow cytometry, and immunoperoxidase staining on frozen tissue sections.		
IMMUNOGEN:	Human peripheral blood mononuclear cells.		
APPLICATIONS:	Flow Cytometry: 1:25, use 50 µl per million cells in 100 µl of PBS buffer. Immunohistochemistry: 1:25-1:100 on acetone fixed, frozen sections.		
SPECIES REACTIVITY:	Human, other species not yet tested.		
PRESENTATION:	Purified immunoglobulin in PBS with 0.2% BSA and 0.1% sodium azide, pH 7.4.		
STORAGE/HANDLING:	Store at 2° to 8°C, for up to 24 months from date of receipt. For long term storage, store below -20°C in undiluted aliquots. Keep tightly closed; AVOID REPEATED FREEZE/THAW CYCLES.		
REFERENCES:	Leucocyte Typing III White Cell Differentiation Antigens. Ed. M. McMichael <u>et al</u> . Oxford, 1986. Hancock W.W., <u>et al</u> (1983): Antigenic heterogeneity of human mononuclear phagocytes: Immunohistologic analysis using monoclonal antibodies. <u>Blood</u> 62:1271-1279. Nolasco F., <u>et al</u> (1984). Interstitial foam cells in the nephrotic syndrome belonging to the monocyte/macrophage lineage. <u>Proc Eur Dial Transplant Assoc Eur Ren Assoc</u> 21:666-671 Barnett M.A., <u>et al</u> (1984): Immunoperoxidase studies of human placenta. <u>Proceedings of the Australian Society for Immunology Path.</u> p85, Abstr 168.		



Brooks D.A. et al (1983): Membrane antigens of human cells of the monocyte/macrophage lineages studied with monoclonal antibodies. *Pathology* 15:45-52. 6. Polli N. et al (1984): Characterization by ultrastructural cytochemistry of normal and leukemic myeloid cells reacting with monoclonal antibodies. *Amer.J.Clin.Path.* 82:389-395.

Hopper K.E. et al (1986): Release of galactosyltransferase from human platelets and a subset of monocytes in culture. *Blood* 68:167-172.

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