



CD14

Product: Anti-human Monocyte/Macrophage Monoclonal Antibody.

Description: Identification of human Monocyte/Macrophage cells expressing the 55 kDa M.W. surface antigen. CD14 is present on 70-93% of Monocyte/Macrophage cells in normal peripheral blood.

Isotype: Mouse IgG-2b kappa.

Clone: FWKW-1

Applications: Monitoring of Monocyte/Macrophage cell subsets in peripheral blood; Characterization of subtypes of leukemia's and lymphomas; Study of AIDS virus infection.

Use: PBMC: Add 10 μ l of MAB/10⁶ PBMC in 100 μ l PBS. Mix gently and incubate for 15 minutes at 20° to 8°C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10 μ l of MAB/100 μ l of whole blood. Mix gently and incubate for 15 minutes at room temperature (20°C). Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

ALLOPHYCOCYANIN: (APC) conjugates are analyzed in multi-color flow cytometry with instruments equipped with a second laser and proper filters. Laser excitation is at 633 nm with a Helium Neon (HeNe) laser or a 600-640 nm (633 nm) range for a Dye laser. Peak fluorescence emission is at 660 nm.

Storage: Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8°C. Conjugated antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	FITC	100 Test	0142
	Biotin	100 Test	0143
	PE	100 Test	0144
	APC	100 Test	AP14

REFERENCES:

1. Immunocytochemical investigation of normal and chronic lymphocytic leukaemia lymphocytes reveals unexpectedly frequent reactivity with some myelomonocytic associated antibodies. Woessner S; Florensa L; Besses C; Vila RM; Galles C; Palou L; Sabrafen JS Leuk Res 1992;16(5):505-10
2. Effect of cytokines and lipopolysaccharide on CD14 antigen expression in human monocytes and macrophages. Landmann R; Ludwig C; Obrist R; Obrecht JP J Cell Biochem 1991 Dec;47(4):317-29
3. Surface markers in adult acute myeloblastic leukemia: correlation of CD19+, CD34+ and CD14+/DR--phenotypes with shorter survival. Groupe d'Etude Immunologique des Leucemies (GEIL). Solary E; Casasnovas RO; Campos L; Bene MC; Faure G; Maingon P; Falkenrodt A. Leukemia 1992 May;6(5):393-9
4. In situ hybridization of interleukin-1 in CD14-positive cells in rheumatoid arthritis. Wood NC; Dickens E; Symons JA; Duff GW Clin Immunol Immunopathol 1992 Mar;62(3):295-300
5. Expression of CD54, CD58, CD14, and HLA-DR on macrophages and macrophage-derived accessory cells and their accessory capacity. Ocklind G; Friedrichs D; Peters JH Immunol Lett 1992 Feb 15;31(3):253-8
6. IL-4 decreases the expression of the monocyte differentiation marker CD14, paralleled by an increasing accessory potency. Ruppert J; Friedrichs D; Xu H; Peters JH Immunobiology 1991 Aug;182(5):449-64

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