



CD15

Product: Anti-human CD15 monoclonal antibody.

Description: Identification of CD15 that recognizes a human myelomonocytic antigen. The structure recognized by CD15 antibodies is lacto-N-fucopentose III.1. The CD15 antigen is present on greater than 95% of mature peripheral blood eosinophils and neutrophils. It is present at low density on circulating monocytes. In lymphoid tissue CD15 reacts with Reed-Sternberg cells of Hodgkins disease and with granulocytes. However, CD15 reacts with only a few tissue macrophages and does not react with dendritic cells.

Isotype: Antibody is composed of mouse IgM heavy chains and kappa light chains.

Clone: ARE.5

Applications: Study of myeloid leukemias; Study of myeloid differentiation; Study of Reed-Sternberg cells.

Use: PBMC: Add 10 µl of MAB/10⁶ PBMC in 100 µl PBS. Mix gently and incubate for 15 minutes at 2^o to 8^oC. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10 µl of MAB/100 µl of whole blood. Mix gently and incubate for 15 minutes at room temperature (20^oC). 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.

Storage: Unconjugated antibodies supplied as a 1 mg/ml solution PBS and 0.08% sodium azide and should be stored at -20°C. 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 #
	Pure	100 µg	0151
	FITC	100 Test	0152

REFERENCES:

1. Skubitz K, Balke J, Ball E, et al. Report on the CD15 cluster workshop. In: Knapp W, Dörken B, Gilks WR, et al, eds. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford: Oxford University Press; 1989;800-805.
2. Hanjan SNS, Kearney JF, Cooper MD. A monoclonal antibody (MMA) that identifies a differentiation antigen on human myelomonocytic cells. Clin Immunol Immunopath. 1982;23:172.
3. Hsu SM, Jaffe ES. Leu-M1 and peanut agglutinin stain the neoplastic cells of Hodgkin's Disease. Amer J Clin Path. 1984;82:29.
4. Pinkus GS, Thomas P, Said JW. Leu-M1—A marker for Reed Sternberg cells in Hodgkin's Disease: An immunoperoxidase study of paraffin-embedded tissues. Am J Pathol. 1985;119:244.

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