

Monoclonal Antibody to CD33 / SIGLEC3 - PE

Alternate names:	Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, Siglec-3, gp67
Catalog No.:	AM05188RP-N
Quantity:	100 Tests
Concentration:	Lot specific
Background:	<p>CD33 is found on granulocyte and macrophage precursors in the bone marrow, but is not on pluripotent stem cells. The protein is also expressed on, and is a useful marker for, peripheral monocytes. It is also useful for distinguishing myelogenous leukaemia cells from lymphoid or erythroid leukaemias.</p> <p>Identification of human Monocytes (bright) and Granulocytes (dim) expressing the 67kDa M.W. surface antigen.</p> <p>CD33 is also found on CFU-mix, CFU-GM, CFU-Meg, a portion of BFU-E, myeloblasts, promyelocytes, myelocytes, metamyelocytes but not early precursors.</p>
Uniprot ID:	P20138
NCBI:	NP_001763.3
GeneID:	945
Host / Isotype:	Mouse / IgG1
Clone:	FOS
Format:	<p>State: Liquid purified IgG fraction.</p> <p>Buffer System: PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative.</p> <p>Label: PE</p>
Applications:	<p>Flow Cytometry.</p> <p>Characterization of subtypes of leukemias and lymphomas.</p> <p>Studies of AIDS virus infection.</p> <p>Myeloid cell function studies.</p> <p>Analysis of hematopoietic maturation.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises human Myeloid.</p> <p>Species: Human.</p> <p>Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C.</p> <p>Do Not Freeze!</p> <p>Shelf life: One year from despatch.</p>

- General Readings:**
1. Garand R, Vannier JP, Béné MC, Faure G, Favre M, Bernard A. Comparison of outcome, clinical, laboratory, and immunological features in 164 children and adults with T-ALL. The Groupe d'Etude Immunologique des Leucémies. *Leukemia*. 1990 Nov;4(11):739-44. PubMed PMID: 2232884.
 2. Immunologic Classification of Leukemia and Lymphoma. Foon, K.A., Todd, III, R.F. (1986)(1986) *Blood* ,68, 1
 3. Thomas X, Campos L, Archimbaud E, Shi ZH, Treille-Ritouet D, Anglaret B, et al. Surface marker expression in acute myeloid leukaemia at first relapse. *Br J Haematol*. 1992 May;81(1):40-4. PubMed PMID: 1381608.
 4. Robertson MJ, Soiffer RJ, Freedman AS, Rabinowe SL, Anderson KC, Ervin TJ, et al. Human bone marrow depleted of CD33-positive cells mediates delayed but durable reconstitution of hematopoiesis: clinical trial of MY9 monoclonal antibody-purged autografts for the treatment of acute myeloid leukemia. *Blood*. 1992 May 1;79(9):2229-36. PubMed PMID: 1571539.
 5. Dinndorf PA, Buckley JD, Nesbit ME, Lampkin BC, Piomelli S, Feig SA, et al. Expression of myeloid differentiation antigens in acute nonlymphocytic leukemia: increased concentration of CD33 antigen predicts poor outcome--a report from the Childrens Cancer Study Group. *Med Pediatr Oncol*. 1992;20(3):192-200. PubMed PMID: 1574028.
 6. Bernstein ID, Singer JW, Smith FO, Andrews RG, Flowers DA, Petersens J, et al. Differences in the frequency of normal and clonal precursors of colony-forming cells in chronic myelogenous leukemia and acute myelogenous leukemia. *Blood*. 1992 Apr 1;79(7):1811-6. PubMed PMID: 1373089.
 7. Buccheri V, Shetty V, Yoshida N, Morilla R, Matutes E, Catovsky D. The role of an anti-myeloperoxidase antibody in the diagnosis and classification of acute leukaemia: a comparison with light and electron microscopy cytochemistry. *Br J Haematol*. 1992 Jan;80(1):62-8. PubMed PMID: 1311196.

Protocols:

PBMC:

Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.
Mix gently and incubate for 15 minutes at 2-8°C.
Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD:

Add 10 ul of MAB/100 ul 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 manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com