Datasheet for ABIN775711

anti-CD33 antibody (APC)

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Overview

Quantity:	100 tests
Target:	CD33
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD33 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human AML cells
Clone:	WM53
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody WM53 reacts with an extracellular epitope of CD33, a 67 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells, it is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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Target Details

Target:	CD33
Alternative Name:	CD33 (CD33 Products)
Background:	CD33 Molecule,CD33 is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies, these ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic lineage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia.,SIGLEC3, p67
Gene ID:	945
UniProt:	P20138

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

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Product cited in:

Garnache-Ottou, Chaperot, Biichle, Ferrand, Remy-Martin, Deconinck, de Tailly, Bulabois, Poulet, Kuhlein, Jacob, Salaun, Arock, Drenou, Schillinger, Seilles, Tiberghien, Bensa, Plumas, Saas: " Expression of the myeloid-associated marker CD33 is not an exclusive factor for leukemic plasmacytoid dendritic cells." in: **Blood**, Vol. 105, Issue 3, pp. 1256-64, (2005) (PubMed).

Leone, Rutella, Bonanno, Abbate, Rebuzzi, Giovannini, Lombardi, Galiuto, Liuzzo, Andreotti, Lanza, Contemi, Leone, Crea: "Mobilization of bone marrow-derived stem cells after myocardial infarction and left ventricular function." in: **European heart journal**, Vol. 26, Issue 12, pp. 1196-204, (2005) (PubMed).

Schenk, Bouchon, Birrer, Colonna, Mueller: "Macrophages expressing triggering receptor expressed on myeloid cells-1 are underrepresented in the human intestine." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 174, Issue 1, pp. 517-24, (2004) (PubMed).

Vitale, Romagnani, Puccetti, Olive, Costello, Chiossone, Pitto, Bacigalupo, Moretta, Mingari: " Surface expression and function of p75/AIRM-1 or CD33 in acute myeloid leukemias: engagement of CD33 induces apoptosis of leukemic cells." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 98, Issue 10, pp. 5764-9, (2001) (PubMed).

Shin, Choi, Kim, Chung, Chung, Park, Jung, Kim, Park, Kim, Park, Min, Kim, Park: "Expression of leukemia-associated antigen, JL1, in bone marrow and thymus." in: **The American journal of pathology**, Vol. 158, Issue 4, pp. 1473-80, (2001) (PubMed).

There are more publications referencing this product on: Product page

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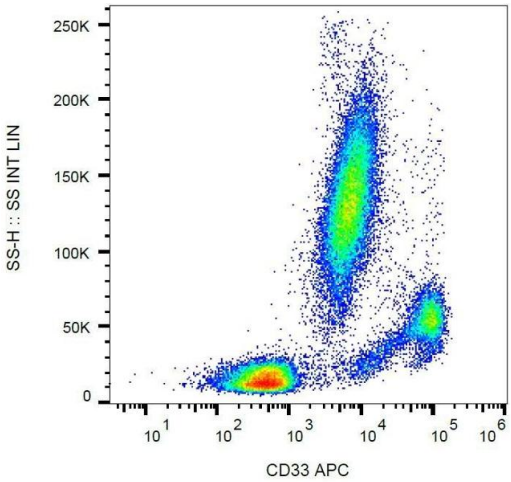

Flow Cytometry

Image 1. Surface staining of human peripheral blood with anti-CD33 (WM53) APC.

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