Datasheet for ABIN1302476

anti-CD33 antibody

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Overview

Quantity:	0.1 mg
Target:	CD33
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD33 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC), Cytometry by Time of Flight (CyTOF)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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:	Immunohistochemistry (frozen sections): Acetone fixation. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	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).

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).

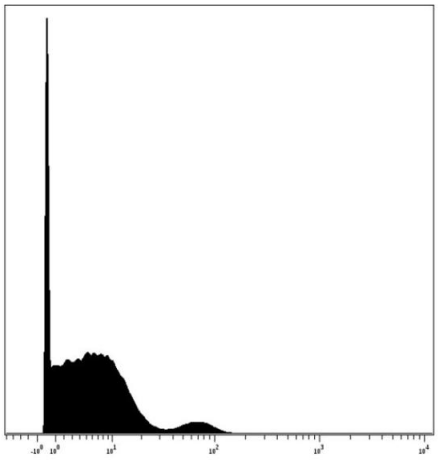
Schenk, Bouchon, Birrer, Colonna, Mueller: "Macrophages expressing triggering receptor expressed on myeloid cells-1 are underrepresented in the human intestine." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 174, Issue 1, pp. 517-24, (2004) (PubMed).

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).

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).

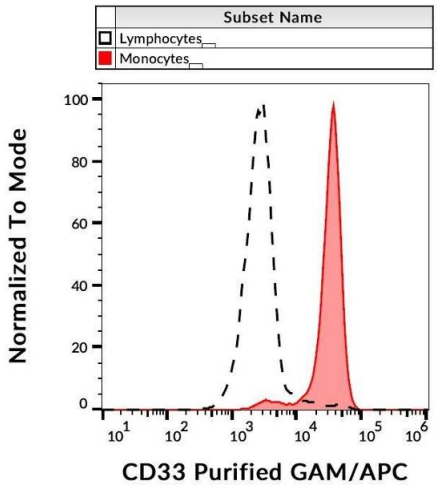
There are more publications referencing this product on: Product page

Images



Cytometry by Time of Flight

Image 1. Mass cytometry (surface staining) of human peripheral blood with anti-CD33 (WM53) 149Sm. Gated on singlets.



Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-CD33 (WM53) purified, GAM-APC.