

Datasheet for ABIN1302947  
**anti-CD33 antibody (FITC)**



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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 FITC
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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	CD33
Alternative Name:	CD33 ( <a href="#">CD33 Products</a> )
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:	<a href="#">P20138</a>

## Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

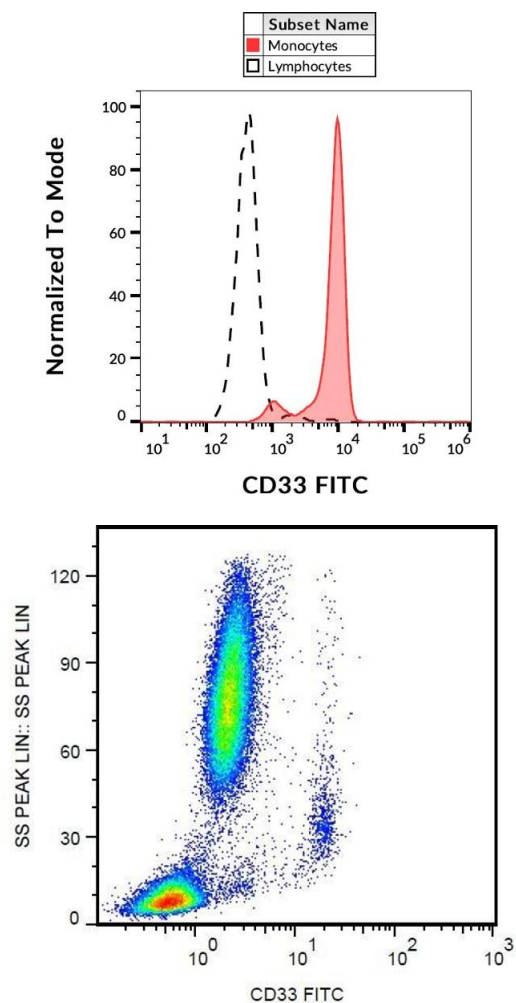
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling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

## Publications

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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](#)



### Flow Cytometry

**Image 1.** Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD33 (WM53) FITC.

### Flow Cytometry

**Image 2.** Surface staining of human peripheral blood with anti-CD33 (WM53) FITC.