

Datasheet for ABIN780369
anti-CD33 antibody (PerCP)



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1 Image 8 Publications

Overview

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

Product Details

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| 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 Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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| 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

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| 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 Peridinin-chlorophyll-protein complex (PerCP) 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

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| 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. |

Publications

Product cited in: Garnache-Ottou, Chaperot, Biichle, Ferrand, Remy-Martin, Deconinck, de Taily, 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](#)).

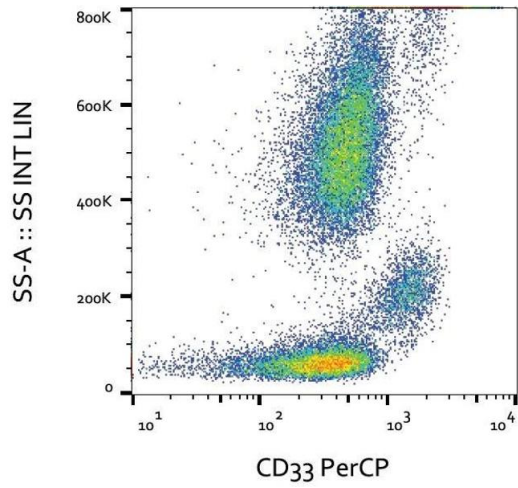
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Schenk, Bouchon, Birrer, Colonna, Mueller: "Macrophages expressing triggering receptor expressed on myeloid cells-1 are underrepresented in the human intestine." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 174, Issue 1, pp. 517-24, (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. Surface staining of human peripheral blood with anti-CD33 (WM53) PerCP.