

Mouse anti-Human CD33 Monoclonal Antibody | anti-CD33 antibody

Mouse Anti Human CD33: Amethyst Orange

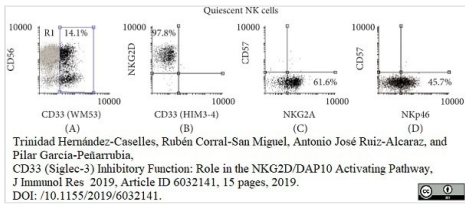
CATALOG # AAA50400	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD33; Monoclonal Antibody; Mouse Anti Human CD33: Amethyst Orange; CD33 antibody; WM53; anti-CD33 antibody

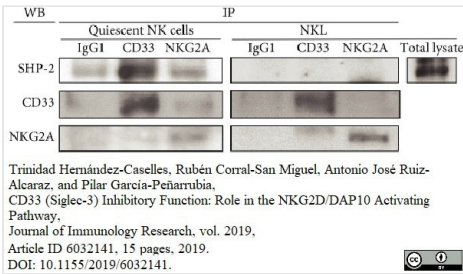
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	WM53
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	364
Applicable Applications for anti-CD33 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human AML cells
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line
Buffer Solution	Phosphate Buffered Saline
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. This product contains a precipitate we recommend microcentrifugation before use.



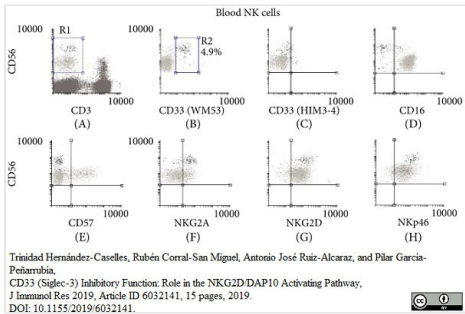
Application Data

Mouse anti Human CD33 antibody, clone WM53 used to evaluate CD33 expression on blood derived quiescent NK cells by flow cytometry. Image caption: CD33 expression and function in primary human NK cells. CD33+ (WM53+ HIM3-4-) quiescent NK cells (R1 region, dark dots) were CD57-, NKG2D+, and partially expressed Nkp46 and NKG2A antigens. From: Hernández-Caselles T, Miguel RC, Ruiz-Alcaraz AJ, García-Peñarubia P. CD33 (Siglec-3) Inhibitory Function: Role in the NKG2D/DAP10 Activating Pathway. J Immunol Res. 2019 Apr 15;2019:6032141. doi: 10.1155/2019/6032141. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



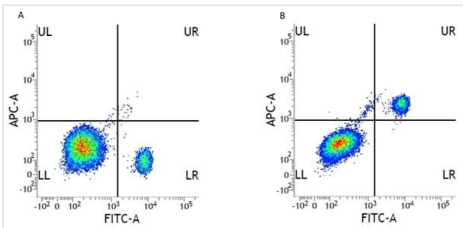
Application Data

Mouse anti Human CD33 antibody, clone WM53 used to evaluate CD33 expression on blood derived NK cells using immunoprecipitation. Image caption: CD33 expression and function in primary human NK cells. (d) CD33 coprecipitated SHP-2 phosphatase only in quiescent primary human NK cell lysates. The figure shows a representative experiment out of two with similar results. From: Hernández-Caselles T, Miguel RC, Ruiz-Alcaraz AJ, García-Peñarubia P. CD33 (Siglec-3) Inhibitory Function: Role in the NKG2D/DAP10 Activating Pathway. J Immunol Res. 2019 Apr 15;2019:6032141. doi: 10.1155/2019/6032141. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



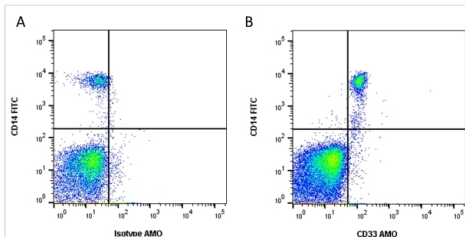
Application Data

Mouse anti Human CD33 antibody, clone WM53 used to evaluate CD33 expression on blood derived NK cells by flow cytometry. Image caption: CD33 expression and function in primary human NK cells. (a) Blood NK cells (CD3-CD56+ lymphocytes in region R1) and (b, c) quiescent primary human NK cells were phenotyped by flow cytometry. Blood CD33+ NK cells were mainly CD56bright (R2 region, dark dots), CD16-, CD57-, NKG2A+, and NKG2D+. The figure shows a representative blood sample out of the four tested. From: Hernández-Caselles T, Miguel RC, Ruiz-Alcaraz AJ, García-Peñarubia P. CD33 (Siglec-3) Inhibitory Function: Role in the NKG2D/DAP10 Activating Pathway. J Immunol Res. 2019 Apr 15;2019:6032141. doi: 10.1155/2019/6032141. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



Application Data

Figure A. FITC conjugated mouse anti human CD14 and Alexa647 conjugated Mouse IgG1 isotype control. Figure B. FITC conjugated mouse anti human CD14 and Alexa647 conjugated mouse anti human CD33. All experiments performed on red cell lysed Human peripheral blood gated on myeloid cells in the presence of Human SeroBlock.



Application Data

FITC conjugated Mouse anti Human CD14 and Amethyst Orange conjugated Mouse IgG1 isotype control. Figure B. FITC conjugated Mouse anti Human CD14 and Amethyst Orange conjugated Mouse anti Human CD33. All experiments performed on human blood gated on live single mononuclear cells, in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer.

ADDITIONAL INFORMATION

Related Product Information for anti-CD33 antibody

Mouse anti Human CD33 antibody, clone WM53 recognizes the human CD33 cell surface glycoprotein. This antigen, considered to be specific for the myeloid lineage, has also been reported to be present on cells of lymphoid origin. Mouse anti Human CD33 antibody, clone WM53 immunoprecipitates a protein of ~75 kDa from myeloid cells, a smaller protein of approximately 67 kDa has been observed in immunoprecipitates from lymphoid targets.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116241290
NCBI GeneID	945
UniProt Accession #	P20138
NCBI Official Full Name	Myeloid cell surface antigen CD33
NCBI Official Synonym Full Names	CD33 molecule
NCBI Official Symbol	CD33
NCBI Official Synonym Symbols	p67; SIGLEC3; SIGLEC-3
NCBI Protein Information	myeloid cell surface antigen CD33
UniProt Protein Name	Myeloid cell surface antigen CD33
UniProt Gene Name	CD33
UniProt Synonym Gene Names	SIGLEC3; Siglec-3
UniProt Entry Name	CD33_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd33-antibody-clone-wm53-flow-cytometry-elisa/50400>