

APC/Cyanine7 anti-human CD33 Antibody

Catalog# / Size	303441 / 25 tests 303442 / 100 tests
Clone	WM53
Regulatory Status	RUO
Workshop	IV M-505
Other Names	Siglec-3, gp67, p67
Isotype	Mouse IgG1, κ
Description	CD33 is a 67 kD type I transmembrane glycoprotein also known as Siglec-3, gp67, and p67. It is a sialoadhesion immunoglobulin superfamily member expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes and hematopoietic stem cells. CD33 functions as a sialic acid-dependent cell adhesion molecule with carbohydrate/lectin binding activity.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human myeloid leukaemia cells.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis ³ . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting ³ , induction of cytokine production ³ , and immunofluorescence ⁴ . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 303437 & 303438).
Application References	<ol style="list-style-type: none"> Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. Favaloro E, <i>et al.</i> 1988. <i>Br. J. Haematol.</i> 69:163. Garnache-Ottou F, <i>et al.</i> 2005. <i>Blood</i> 105:1256. (WB) Pérez-Oliva AB, <i>et al.</i> 2011. <i>Glycobiology.</i> 21:757. (epitope, FC, IF)
(PubMed link indicates BioLegend citation)	
RRID	AB_2876595 (BioLegend Cat. No. 303441) AB_2876595 (BioLegend Cat. No. 303442)

Antigen Details

Structure	Ig superfamily, sialoadhesins, type I glycoprotein, 67 kD
Distribution	Myeloid progenitor, monocytes, granulocytes, dendritic cells, mast cells
Function	Adhesion and lectin activity
Ligand/Receptor	Sugar chains containing sialic acid
Cell Type	B cells, Dendritic cells, Granulocytes, Hematopoietic stem and progenitors, Mast cells, Monocytes, Neutrophils
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules, Siglec Molecules
Antigen References	1. Favaloro E, <i>et al.</i> 1988. <i>Br. J. Haematol.</i> 69:163. 2. Freeman S, <i>et al.</i> 1995. <i>Blood</i> 85:2005.
Gene ID	945

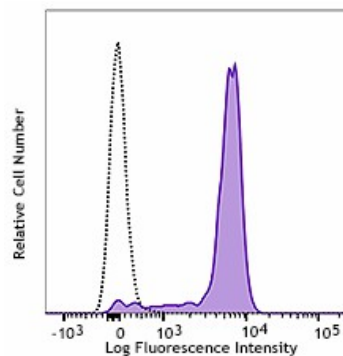
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD33, PE anti-human CD33, PE/Cyanine5 anti-human CD33, Purified anti-human CD33, PerCP/Cyanine5.5 anti-human CD33, Brilliant Violet 711™ anti-human CD33, Brilliant Violet 421™ anti-human CD33, Brilliant Violet 570™ anti-human CD33, Purified anti-human CD33 (Maxpar® Ready), Brilliant Violet 510™ anti-human CD33, Biotin anti-human CD33, Brilliant Violet 785™ anti-human CD33, Brilliant Violet 650™ anti-human CD33, PE/Cyanine7 anti-human CD33, PE/Dazzle™ 594 anti-human CD33, Alexa Fluor® 700 anti-human CD33, Ultra-LEAF™ Purified anti-human CD33, APC/Fire™ 750 anti-human CD33, APC/Cyanine7 anti-human CD33, GMP PerCP/Cyanine5.5 anti-human CD33, Alexa Fluor® 647 anti-human CD33, GMP APC anti-human CD33, GMP PE anti-human CD33, PE/Fire™ 810 anti-human CD33

Product Data



Human peripheral blood monocytes were stained with anti-human CD33 (clone WM53) APC/Cyanine7 (filled histogram), or mouse IgG1, κ APC/Cyanine7 isotype control (open histogram).

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