

PerCP/Cyanine5.5 anti-human CD33 Antibody

Catalog# / Size	366615 / 25 tests 366616 / 100 tests
Clone	P67.6
Regulatory Status	RUO
Other Names	Siglec-3, gp67, p67
Isotype	Mouse IgG1, κ
Description	CD33, also known as Siglec-3, gp67, and p67, is a 67 kD type I transmembrane glycoprotein. It is a sialoadhesion immunoglobulin superfamily member, which is 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
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	FMY9S5 cells expressing CD33 gene.
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 PerCP/Cyanine5.5 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 . 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. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	1. Hoyer J, <i>et al.</i> 2008. <i>Am. J. Clin. Pathol.</i> 129:316.
(PubMed link indicates BioLegend citation)	
Product Citations	1. Labuhn M, <i>et al.</i> 2020. <i>Cancer Cell.</i> 36(2):123-138. PubMed 2. Wang C, <i>et al.</i> 2020. <i>Oncologist.</i> 25:382. PubMed 3. Morgan MA, <i>et al.</i> 2021. <i>Viruses.</i> 13:.. PubMed
RRID	AB_2566417 (BioLegend Cat. No. 366615) AB_2566418 (BioLegend Cat. No. 366616)

Antigen Details

Structure	Ig superfamily, sialoadhesins, type I glycoprotein, 67 kD
Distribution	Myeloid progenitor, monocytes, granulocytes, dendritic cells, and mast cells.
Function	Adhesion and lectin binding activity.
Ligand/Receptor	Sugar chains containing sialic acid.
Cell Type	Dendritic cells, Granulocytes, Hematopoietic stem and progenitors, Mast cells, Monocytes
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules, Siglec Molecules
Antigen References	1. Favalaro 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

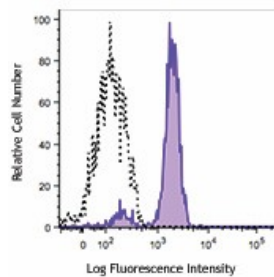
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD33, Purified anti-CD33, APC anti-human CD33, PE anti-human CD33, Brilliant Violet 510™ anti-human CD33, Brilliant Violet 605™ anti-human CD33, APC/Cyanine7 anti-human CD33, PerCP/Cyanine5.5 anti-human CD33, PE/Cyanine7 anti-human CD33, FITC anti-human CD33, Brilliant Violet 421™ anti-human CD33, Biotin anti-human CD33, Alexa Fluor® 647 anti-human CD33, Brilliant Violet 711™ anti-human CD33, TotalSeq™-A0052 anti-human CD33, APC/Fire™ 750 anti-human CD33, TotalSeq™-C0052 anti-human CD33, TotalSeq™-B0052 anti-human CD33, TotalSeq™-D0052 anti-human CD33

Product Data



Human peripheral blood monocytes were stained with CD33 (clone P67.6) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (open histogram).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587