

PE/Cyanine7 anti-human CD33 Antibody

Catalog# / Size	366617 / 25 tests 366618 / 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 PE/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 . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References (PubMed link indicates BioLegend citation)	1. Hoyer J, <i>et al.</i> 2008. <i>Am. J. Clin. Pathol.</i> 129:316.
Product Citations	1. Johnson DC, <i>et al.</i> 2018. <i>Nat Med.</i> 24:1151. PubMed 2. Terenzi DC, <i>et al.</i> 2021. <i>STAR Protoc.</i> 2:100311. PubMed 3. Sehgal R, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:828949. PubMed 4. Łyszkiewicz M, <i>et al.</i> 2020. <i>Nat Commun.</i> 11:1031. PubMed
RRID	AB_2566419 (BioLegend Cat. No. 366617) AB_2566420 (BioLegend Cat. No. 366618)

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. 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

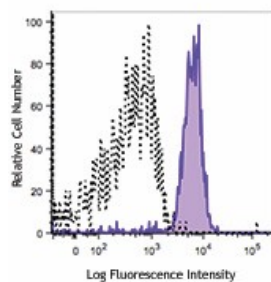
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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) PE/Cyanine7 (filled histogram) or mouse IgG1, κ PE/Cyanine7 isotype control (open histogram).

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