

Brilliant Violet 421™ anti-human CD33 Antibody

Catalog# / Size	366621 / 25 tests 366622 / 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 Brilliant Violet 421™ 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	<p>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.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
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. Xu Y, <i>et al.</i> 2021. <i>Stem Cell Res Ther.</i> 12:112. PubMed 2. Clayton KL, <i>et al.</i> 2021. <i>Cell Host Microbe.</i> 29(3):435-447.e9. PubMed

RRID

AB_2716147 (BioLegend Cat. No. 366621)
AB_2716148 (BioLegend Cat. No. 366622)

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

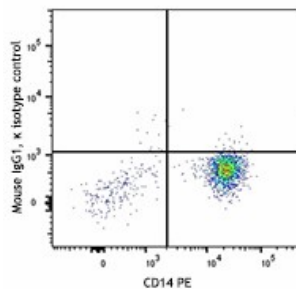
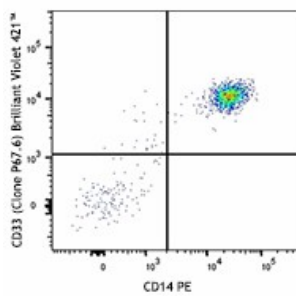
Related Protocols

[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 CD14 PE and CD33 (clone P67.6) Brilliant Violet 421™ (Top) or mouse IgG1, κ Brilliant Violet 421™ (Bottom).

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