

Brilliant Violet 421™ anti-mouse CD33 Antibody

Catalog# / Size	104807 / 50 µg
Clone	W18124D
Regulatory Status	RUO
Other Names	sialic acid binding Ig-like lectin 3, SIGLEC3, SIGLEC-3, gp67, p67
Isotype	Rat IgG2a, λ
Description	CD33, also known as Siglec-3, Sigle, gp67, p67, and gp6, is a member of the sialic acid-binding immunoglobulin lectins (Siglec). CD33 extracellular portion contains two immunoglobulin domains (one IgV and one IgC2 domain). The intracellular portion of CD33 contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that are implicated in inhibition of cellular activity. CD33 is primarily expressed on granulocytes in peripheral blood and spleen, as well as on myeloid precursors in the bone marrow.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	RBL1 Transfected with full length mCD33
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	0.2 mg/mL
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. It is recommended that the reagent be titrated for optimal performance for each application.</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)

Antigen Details

Structure	Extracellular portion contains two immunoglobulin domains (IgV and IgC2 domain), intracellular
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portion contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs)

Distribution	Granulocytes in peripheral blood and spleen, myeloid precursors in the bone marrow
Function	Inhibition of cellular activity
Ligand/Receptor	Molecule with sialic acid residues
Cell Type	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. Brinkman-Van der Linden, Els C M, <i>et al.</i> 2003. <i>Mol Cell Biol.</i> 23:4199-206.
Gene ID	12489

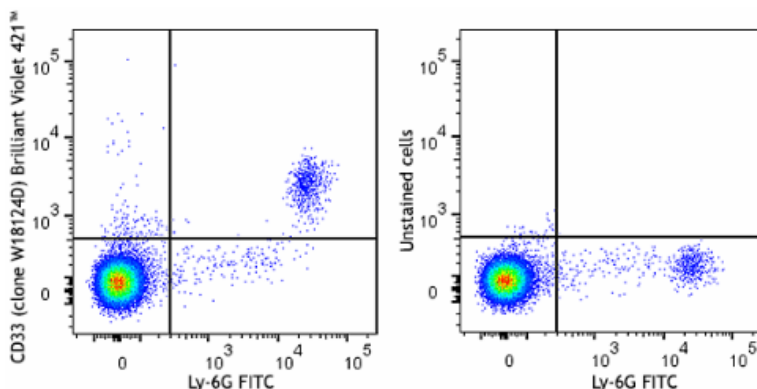
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD33, PE anti-mouse CD33, APC anti-mouse CD33, Brilliant Violet 421™ anti-mouse CD33 Antibody

Product Data



BALB/c mouse splenocytes were stained with anti-mouse Ly-6G (clone 1A8) FITC and anti-mouse CD33 (clone W18124D) Brilliant Violet 421™ (left) or stained with anti-mouse Ly-6G (clone 1A8) FITC only (right).

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