

Brilliant Violet 750™ anti-human CD11b Antibody

Catalog# / Size	340013 / 25 tests 340014 / 100 tests
Clone	W18347A
Regulatory Status	RUO
Other Names	Integrin α M chain, C3biR, CR3, Mac-1, Mo1, ITGAM
Isotype	Rat IgG2a, κ
Description	CD11b is a 165-170 kD type I transmembrane glycoprotein also known as α M integrin, Mac-1, CR3, and C3biR. CD11b non-covalently associates with integrin β 2 (CD18) and is expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils. It is also involved in granulocyte adhesion, phagocytosis, and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, and factor X.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Human CD11b recombinant protein
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 750™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750™ 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	Integrin, type I transmembrane glycoprotein, associates with integrin β 2 (CD18), 165-170 kD
Distribution	Granulocytes, monocytes/macrophages, dendritic cells, NK cells, subset of T cells, subset of B cells
Function	Adhesion, phagocytosis, chemotaxis, neutrophil activation
Interaction	B cells, Dendritic cells, Granulocytes, Macrophages, Monocytes, Neutrophils, NK cells, T cells, Tregs
Ligand/Receptor	ICAM-1(CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, factor X
Cell Type	B cells, Dendritic cells, Granulocytes, Monocytes, Neutrophils, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Stewart M, <i>et al.</i> 1995. <i>Curr. Opin. Cell Biol.</i> 7:690.
Gene ID	3684

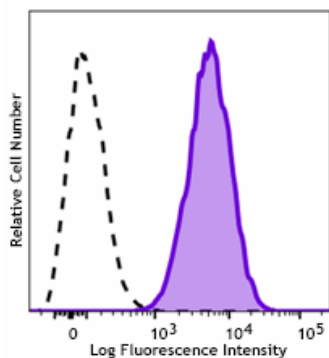
Related Protocols

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

Other Formats

Purified anti-human CD11b Antibody, APC/Fire™ 750 anti-human CD11b, PE anti-human CD11b, PE/Cyanine7 anti-human CD11b, APC anti-human CD11b, PerCP/Cyanine5.5 anti-human CD11b, Brilliant Violet 750™ anti-human CD11b Antibody

Product Data



Human peripheral blood granulocytes were stained with anti-human CD11b (clone W18347A) Brilliant Violet 750™ (filled histogram) or rat IgG2a, κ Brilliant Violet 750™ isotype control (open histogram).

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