

PE/Cyanine7 anti-human CD11b Antibody

Catalog# / Size	340009 / 25 tests 340010 / 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 PE/Cyanine7 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	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. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3662237 (BioLegend Cat. No. 340009) AB_3662237 (BioLegend Cat. No. 340010)

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

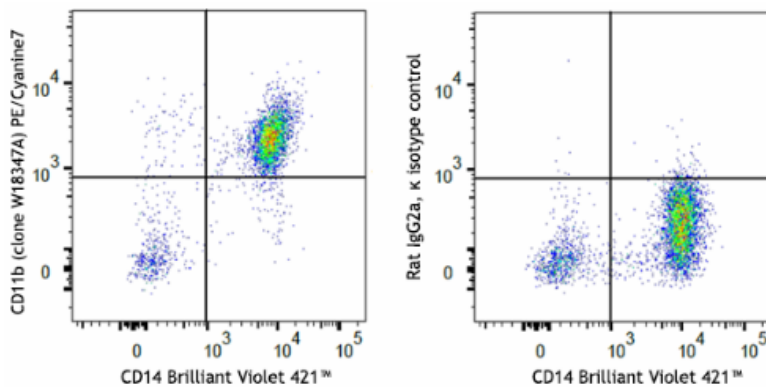
Related Protocols

- [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 monocytes were stained with anti-human CD14 (clone HCD14) Brilliant Violet 421™ and anti-human CD11b (clone W18347A) PE/Cyanine7 (left) or rat IgG2a, κ PE/Cyanine7 isotype control (right).

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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