

Brilliant Violet 421™ anti-mouse CD11a Antibody

Catalog# / Size	162909 / 50 µg
Clone	2D7
Regulatory Status	RUO
Other Names	α _L integrin, Lymphocyte function-associated antigen 1, LFA-1 α subunit, Ly-15, Ly-21, ITGAL
Isotype	Rat IgG2a, κ
Description	CD11a is a 180 kD glycoprotein, also known as α _L integrin, LFA-1 α, Ly-15, or Ly-21. It is a member of the integrin family, primarily expressed on lymphocytes, monocytes/macrophages, and granulocytes. In association with CD18, the CD11a/CD18 complex forms LFA-1. CD11a plays an important role in intercellular adhesion and costimulation by binding its ligands, ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
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 ≤ 0.125 µg per million cells in 100 µL volume. 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)
RRID	AB_3675016 (BioLegend Cat. No. 162909)

Antigen Details

Structure	Integrin, associated with integrin CD18, 180 kD
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Distribution	Lymphocytes, granulocytes, monocytes, macrophages
Function	Cellular adhesion
Ligand/Receptor	ICAM-1 (CD54), ICAM-2 (CD102), ICAM-3 (CD50)
Cell Type	Granulocytes, Lymphocytes, Macrophages, Monocytes
Biology Area	Cell Biology, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Springer TA. 1994. <i>Cell</i> 76:301. 3. Lub M, <i>et al.</i> 1995. <i>Immunol. Today</i> 16:479.
Gene ID	16408

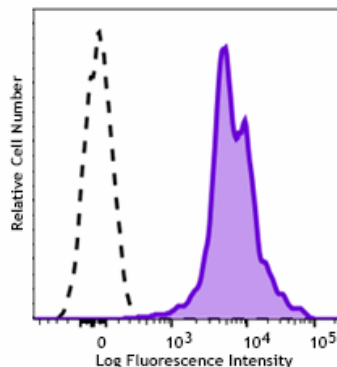
Related Protocols

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

Other Formats

Purified anti-mouse CD11a Antibody, Alexa Fluor® 488 anti-mouse CD11a, APC/Fire™ 750 anti-mouse CD11a, PerCP/Cyanine5.5 anti-mouse CD11a, Brilliant Violet 421™ anti-mouse CD11a, PE anti-mouse CD11a Antibody, PE/Cyanine7 anti-mouse CD11a Antibody

Product Data



C57BL/6 splenocytes were stained with anti-mouse CD11a (clone 2D7) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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