

Brilliant Violet 750™ anti-human CD11c Antibody

Catalog# / Size	337255 / 25 tests 337256 / 100 tests
Clone	Bu15
Regulatory Status	RUO
Workshop	V S143
Other Names	Integrin α_x subunit, ITGAX, CR4, p150
Isotype	Mouse IgG1, κ
Description	CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin α_x and CR4. CD11c non-covalently associates with integrin β_2 (CD18) and is expressed on monocytes/macrophages, dendritic cells, granulocytes, NK cells, and subsets of T and B cells. CD11c has been reported to play a role in adhesion and CTL killing through its interactions with fibrinogen, CD54, and iC3b.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
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	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. 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. Learn more about Brilliant Violet™. 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.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone Bu15 has a different binding epitope than clone 3.9. The binding of Bu15 with CD11c is divalent cation independent. Additional reported applications (for the relevant formats of this clone) include: inhibition of CD11c mediated adhesion and stimulation of chemokine production by monocytes.

Application References

(PubMed link indicates
BioLegend citation)

1. Sadhu C, *et al.* 2008. *J. Immunoass. Immunoch.* 29:42.
2. Rezzonico R, *et al.* 2001. *Blood* 97:2932.
3. Sadhu C, *et al.* 2007. *J. Leukoc. Biol.* 81:1395.
4. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

RRID

AB_3716972 (BioLegend Cat. No. 337255)
AB_3716972 (BioLegend Cat. No. 337256)

Antigen Details

Structure	Integrin, type I transmembrane glycoprotein, associates with integrin β_2 (CD18), 145-150 kD
Distribution	Myeloid, dendritic cells, NK cells, B cells and T cell subsets
Function	Adhesion, CTL killing Ligand Receptor: CD54, fibrinogen, iC3b, ICAM-1, ICAM-4 Antigen
Cell Type	B cells, Dendritic cells, Neutrophils, NK cells, T cells
Biology Area	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Petty H. 1996. <i>Immunol. Today</i> 17:209. 2. Springer T. 1994. <i>Cell</i> 76:301. 3. Ihanus E, <i>et al.</i> 2007. <i>Blood</i> 109:802-810.
Gene ID	3687

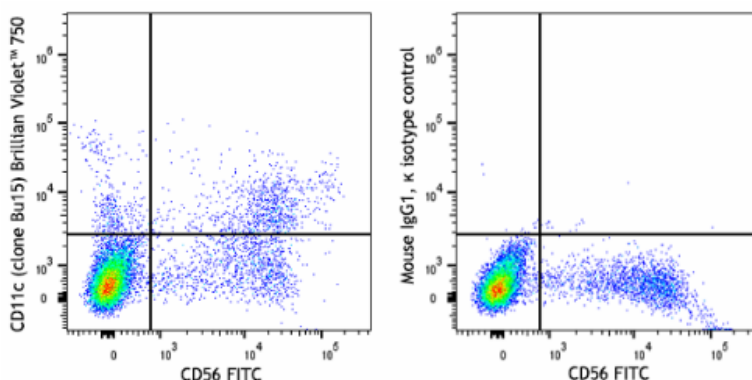
Related Protocols

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

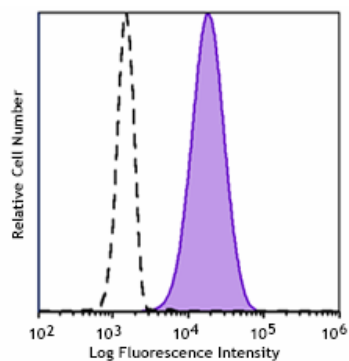
Other Formats

PE/Cyanine7 anti-human CD11c, Pacific Blue™ anti-human CD11c, PerCP/Cyanine5.5 anti-human CD11c, GMP APC anti-human CD11c, GMP PE anti-human CD11c, Spark Blue™ 515 anti-human CD11c, GMP PerCP/Cyanine5.5 anti-human CD11c, PE/Fire™ 700 anti-human CD11c, Spark YG™ 593 anti-human CD11c, GMP Pacific Blue™ anti-human CD11c, Brilliant Violet 711™ anti-human CD11c, Brilliant Violet 421™ anti-human CD11c, Biotin anti-human CD11c, Alexa Fluor® 647 anti-human CD11c, PerCP anti-human CD11c, Alexa Fluor® 488 anti-human CD11c, Brilliant Violet 650™ anti-human CD11c, FITC anti-human CD11c, PE anti-human CD11c, APC anti-human CD11c, Purified anti-human CD11c, APC/Cyanine7 anti-human CD11c, Purified anti-human CD11c (Maxpar® Ready), PE/Fire™ 640 anti-human CD11c, Brilliant Violet 750™ anti-human CD11c, Brilliant Violet 785™ anti-human CD11c, PE/Dazzle™ 594 anti-human CD11c, APC/Fire™ 750 anti-human CD11c, Alexa Fluor® 700 anti-human CD11c, Brilliant Violet 605™ anti-human CD11c, GMP PE/Cyanine7 anti-human CD11c, Spark PLUS UV395™ anti-human CD11c

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone HCD56) FITC and anti-human CD11c (clone Bu15) Brilliant Violet™ 750 (left) or mouse IgG1, κ Brilliant Violet 750™ isotype control (right).



Human peripheral blood granulocytes stained with anti-human CD11c (clone Bu15) Brilliant Violet™ 750 (filled histogram) or mouse IgG1, κ Brilliant Violet 750™ isotype control (open histogram).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

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