

Purified anti-human CD11c Antibody

Catalog# / Size	337202 / 100 µg
Clone	Bu15
Regulatory Status	RUO
Workshop	V S143
Other Names	Integrin αx 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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF® - Verified
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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
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	<ol style="list-style-type: none"> 1. Sadhu C, <i>et al.</i> 2008. <i>J. Immunoass. Immunoch.</i> 29:42. 2. Rezzonico R, <i>et al.</i> 2001. <i>Blood</i> 97:2932. 3. Sadhu C, <i>et al.</i> 2007. <i>J. Leukoc. Biol.</i> 81:1395. 4. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)
(PubMed link indicates BioLegend citation)	

Product Citations

1. Martin–Fernandez M, *et al.* 2020. *Cell Reports*. 31(6):107633. [PubMed](#)
2. Taft J, *et al.* 2021. *Cell*. 184(17):4447-4463.e20. [PubMed](#)
3. Cao Q, *et al.* 2018. *Am J Physiol Renal Physiol*. 314:F561. [PubMed](#)
4. Mann ER, *et al.* 2020. *Sci Immunol.* :5. [PubMed](#)
5. Martin JC, *et al.* 2020. *Cell*. 178(6):1493-1508.e20.. [PubMed](#)
6. Gruber CN, *et al.* 2020. *Cell*. 183:982. [PubMed](#)
7. Yang R, *et al.* 2020. *Cell*. 183(7):1826-1847.e31. [PubMed](#)
8. Wastyk HC, *et al.* 2021. *Cell*. 184(16):4137-4153.e14. [PubMed](#)
9. Newell KL, *et al.* 2021. *PLoS One*. 16:e0244855. [PubMed](#)
10. Henrick BM, *et al.* 2021. *Cell*. . [PubMed](#)
11. NULL, *et al.* 2022. *Cell*. 185:916. [PubMed](#)
12. Chevrier S, *et al.* 2021. *Cell Reports Medicine*. 2(1):100166. [PubMed](#)

RRID AB_1236381 (BioLegend Cat. No. 337202)

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

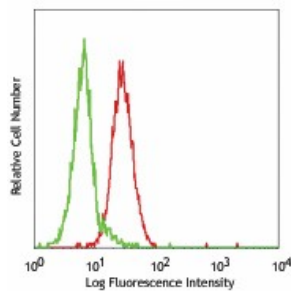
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC/Cyanine7 anti-human CD11c, Purified anti-human CD11c, PE anti-human CD11c, APC anti-human CD11c, PerCP/Cyanine5.5 anti-human CD11c, Pacific Blue™ anti-human CD11c, FITC anti-human CD11c, PE/Cyanine7 anti-human CD11c, Alexa Fluor® 700 anti-human CD11c, Purified anti-human CD11c (Maxpar® Ready), Brilliant Violet 421™ anti-human CD11c, PE/Dazzle™ 594 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, APC/Fire™ 750 anti-human CD11c, GMP PE anti-human CD11c

Product Data



Human peripheral blood granulocytes stained with purified Bu15, followed by anti-mouse IgG FITC

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BioLegend Inc., 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

