

Purified anti-mouse CD11c Antibody

Catalog# / Size	117301 / 50 µg 117302 / 500 µg
Clone	N418
Regulatory Status	RUO
Other Names	αX integrin, integrin αX chain, CR4, p150, ITGAX
Isotype	Armenian Hamster IgG
Description	CD11c is a 150 kD glycoprotein also known as α _x integrin, CR4, and p150. CD11c forms a α _x β ₂ heterodimer with β ₂ integrin (CD18). It is primarily expressed on dendritic cells, NK cells, a subset of intestinal intraepithelial lymphocytes (IEL), and some activated T cells. The α _x β ₂ integrin plays an important role in cell-cell contact by binding its ligands: iC3b, fibrinogen, and CD54.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse spleen dendritic cells
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 IP, IHC - Reported in the literature, not verified in house
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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation ³ , immunohistochemical staining of acetone-fixed frozen sections ³ , immunofluorescence microscopy ^{5,9} (Alexa Fluor® 488 conjugated N418 was used for IHC in frozen sections ¹⁰), and spatial biology (IBEX) ^{22,23} .
Application References	<ol style="list-style-type: none"> 1. Granucci F, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:1794. 2. Stokes RW, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:5514. 3. Metlay JP, <i>et al.</i> 1990. <i>J. Exp. Med.</i> 171:1753. (IHC, IP) 4. Ma XT, <i>et al.</i> 2006. <i>Cancer Research</i> 66:1169. 5. Chin RK, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:290. (IF) 6. Cervantes-Barragan L, <i>et al.</i> 2007. <i>Blood</i> 109:1131. (FC) PubMed 7. Turnquist HR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:7018. (FC) PubMed 8. Benson MJ, <i>et al.</i> 2007. <i>J. Exp. Med.</i> doi:10.1084/jem.20070719. (FC) PubMed 9. You Y, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:7343. (IF) PubMed 10. Roland CL, <i>et al.</i> 2009. <i>Mol. Cancer Res.</i> 8:1761. (IHC, FC) PubMed 11. Wikstrom M, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:913. PubMed 12. Pericolini E, <i>et al.</i> 2008. <i>J. Leukocyte Biol.</i> 83:1286. PubMed 13. Randall LM, <i>et al.</i> 2008. <i>Infect. Immun.</i> 76:3312. PubMed 14. Fahlen-Yrild L, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:5032. PubMed 15. Osterholzer JJ, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:8044. PubMed 16. Bankoti J, <i>et al.</i> 2010. <i>Toxicol. Sci.</i> 115:422. (FC) PubMed
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RRID

AB_313770 (BioLegend Cat. No. 117301)
 AB_313771 (BioLegend Cat. No. 117302)

Antigen Details

Structure

Integrin α -chain, associates with integrin β_2 (CD18), 150 kD

Distribution

Dendritic cells, NK cells, intestinal intraepithelial lymphocytes (IEL), some activated T cells

Function	Cellular adhesion
Ligand/Receptor	iC3b, fibrinogen
Cell Type	Dendritic cells, Epithelial cells, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen Facts Book Academic Press. 2. Springer TA. 1994. <i>Cell</i> 76:301. 3. Lopez-Rodriguez C, <i>et al.</i> 1996. <i>J. Immunol.</i> 156:3780.
Gene ID	16411

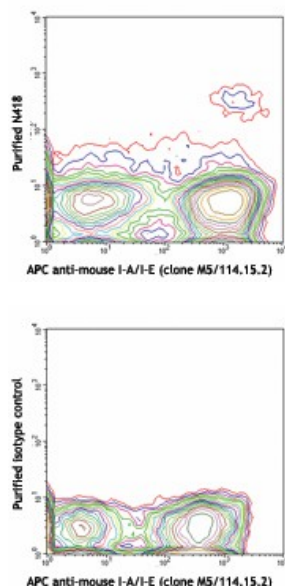
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse CD11c, Biotin anti-mouse CD11c, FITC anti-mouse CD11c, PE anti-mouse CD11c, Purified anti-mouse CD11c, Alexa Fluor® 488 anti-mouse CD11c, Alexa Fluor® 647 anti-mouse CD11c, PE/Cyanine5 anti-mouse CD11c, PE/Cyanine7 anti-mouse CD11c, Brilliant Violet 605™ anti-mouse CD11c, Alexa Fluor® 700 anti-mouse CD11c, Pacific Blue™ anti-mouse CD11c, APC/Cyanine7 anti-mouse CD11c, PerCP/Cyanine5.5 anti-mouse CD11c, PerCP anti-mouse CD11c, Brilliant Violet 421™ anti-mouse CD11c, Brilliant Violet 570™ anti-mouse CD11c, Brilliant Violet 785™ anti-mouse CD11c, Brilliant Violet 510™ anti-mouse CD11c, Brilliant Violet 650™ anti-mouse CD11c, Purified anti-mouse CD11c (Maxpar® Ready), Alexa Fluor® 594 anti-mouse CD11c, PE/Dazzle™ 594 anti-mouse CD11c, Brilliant Violet 711™ anti-mouse CD11c, APC/Fire™ 750 anti-mouse CD11c, TotalSeq™-A0106 anti-mouse CD11c, Brilliant Violet 750™ anti-mouse CD11c, TotalSeq™-B0106 anti-mouse CD11c, TotalSeq™-C0106 anti-mouse CD11c, KIRAVIA Blue 520™ anti-mouse CD11c, Spark Blue™ 550 anti-mouse CD11c, Spark NIR™ 685 anti-mouse CD11c, Spark UV™ 387 anti-mouse CD11c, Spark Red™ 718 anti-mouse CD11c

Product Data



C57BL/6 mouse splenocytes stained with APC anti-mouse I-A/I-E (clone M5/114.15.2) and purified N418 (top) or purified Armenian hamster IgG isotype control (bottom), followed by anti-Armenian hamster IgG FITC

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