Purified anti-mouse CD11c Antibody

Catalog# / Size	117301 / 50 µg 117302 / 500 µg
Clone	N418
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 $\alpha_X\beta_2$ 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 $\alpha_X\beta_2$ integrin plays an important role in cell-cell contact by binding its ligands: iC3b, fibrinogen, and CD54.

Product Details

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® - Validated IP, IHC - Reported in the literature
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], and immunofluorescence microscopy[5, 9] (Alexa Fluor® 488 conjugated N418 was used for IHC in frozen sections[10]).

Application References

1. Granucci F, et al. 1997. J. Immunol. 159:1794.
2. Stokes RW, et al. 1998. J. Immunol. 160:5514.
3. Metlay JP, et al. 1990. J. Exp. Med. 171:1753. (IHC, IP)
4. Ma XT, et al. 2006. Cancer Research 66:1169.
5. Chin RK, et al. 2006. J. Immunol. 177:290. (IF)
6. Cervantes-Barragan L, et al. 2007. Blood 109:1131. (FC) PubMed
7. Turnquist HR, et al. 2007. J. Immunol. 178:7018. (FC) PubMed
8. Benson MJ, et al. 2007. J. Exp. Med. doi:10.1084/jem.20070719. (FC) PubMed
9. You Y, et al. 2009. J. Immunol. 182:7343. (IF) PubMed
10. Roland CL, et al. 2009. Mol. Cancer Res. 8:1761. (IHC, FC) PubMed
11. Wikstrom M, et al.2006. J. Immunol. 177:913. PubMed
12. Pericolini E, et al. 2008. J. Leukocyte Biol. 83:1286. PubMed

Product Citations

1. Wikstrom M, et al. 2006. J Immunol. 177:913. PubMed
2. Benson M, et al. 2007. J Exp Med. 204:1765. PubMed
3. Pericolini E, et al. 2008. J Leukoc Biol. 83:1286. PubMed
4. Osterholzer J, et al. 2009. J Immunol. 183:8044. PubMed
5. Fahlén-Yrlid L, et al. 2009. J Immunol. 183:5032. PubMed
6. Eisenach P, et al. 2010. J Cell Sci. 123:4182. PubMed
7. Murakami R, et al. 2013. PLoS One. 8:73270. PubMed
8. Leppin K, et al. 2014. Invest Ophthalmol Vis Sci . 55:3603. PubMed
9. Calderon B, et al. 2015. J Exp Med. 212: 1497-1512. PubMed
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12. Hammer A, et al. 2017. Front Immunol. . 10.3389/fimmu.2017.01922. PubMed

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, et al. 1997. The Leukocyte Antigen Facts Book Academic Press. 2. Springer TA. 1994. Cell 76:301. 3. Lopez-Rodriguez C, et al. 1996. J. Immunol. 156:3780.
Gene ID	16411

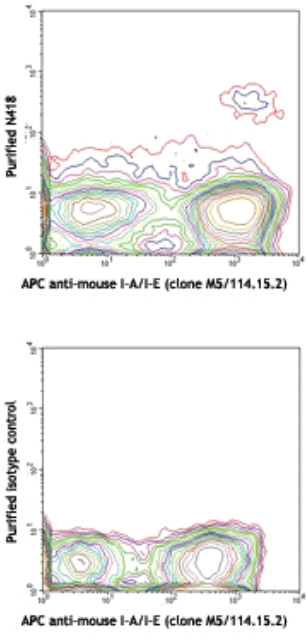
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-mouse CD11c, Biotin anti-mouse CD11c, FITC anti-mouse CD11c, PE anti-mouse CD11c, 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

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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