BioLegend
From Revvity

Version: 1 Revision Date: 11/30/2012

FITC anti-mouse CD11c Antibody

Catalog# / Size	117305 / 50 µg 117306 / 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 $\alpha_X\beta_2$ 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

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, and conjugated with FITC under optimal conditions.
Concentration	0.5 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	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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
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 **(PubMed link indicates BioLegend citation)**	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 See More

Product Citations

1. Akhtar MN, *et al.* 2022. MBio. 13:e0330921. PubMed
2. Li Q, *et al.* 2022. Biomed Pharmacother. 153:113459. PubMed
3. Schroeter CB, *et al.* 2022. J Neuroinflammation. 19:270. PubMed
4. Chen H, *et al.* 2023. Nat Commun. 14:941. PubMed
5. Wilson NG, *et al.* 2023. iScience. 26:105991. PubMed
6. Lu C, *et al.* 2023. Antiviral Res. 212:105556. PubMed
7. Cheng K, *et al.* 2023. Small. 19:e2300125. PubMed
8. Sang H, *et al.* 2023. Adv Clin Exp Med. 32:551. PubMed
9. Huang T, *et al.* 2023. Front Immunol. 14:1124152. PubMed
10. Fu S, *et al.* 2023. Nat Commun. 14:2248. PubMed
11. Zhou X, *et al.* 2023. Sci Rep. 13:6701. PubMed
12. Li T, *et al.* 2023. Nat Commun. 14:2498. PubMed

RRID

AB_313774 (BioLegend Cat. No. 117305)
AB_313775 (BioLegend Cat. No. 117306)

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

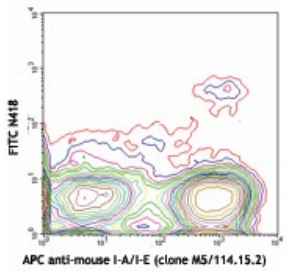
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

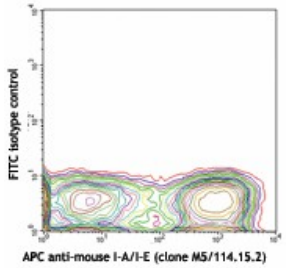
Other Formats

Brilliant Violet 421™ anti-mouse CD11c, Brilliant Violet 570™ anti-mouse CD11c, Brilliant Violet 785™ anti-mouse CD11c, Brilliant Violet 605™ anti-mouse CD11c, Brilliant Violet 650™ anti-mouse CD11c, Brilliant Violet 510™ anti-mouse CD11c, Alexa Fluor® 594 anti-mouse CD11c, PE/Dazzle™ 594 anti-mouse CD11c, Purified anti-mouse CD11c (Maxpar® Ready), Brilliant Violet 711™ anti-mouse CD11c, APC/Fire™ 750 anti-mouse CD11c, Spark NIR™ 685 anti-mouse CD11c, Spark Blue™ 515 anti-mouse CD11c, PerCP/Fire™ 806 anti-mouse CD11c, Spark Red™ 718 anti-mouse CD11c, APC anti-mouse CD11c, TotalSeq™-C0106 anti-mouse CD11c, FITC anti-mouse CD11c, PE anti-mouse CD11c, Purified anti-mouse CD11c, TotalSeq™-A0106 anti-mouse CD11c, Spark PLUS UV395™ anti-mouse CD11c, KIRAVIA Blue 520™ anti-mouse CD11c, Spark Blue™ 574 anti-mouse CD11c (Flexi-Fluor™), Biotin anti-mouse CD11c, Spark YG™ 593 anti-mouse CD11c (Flexi-Fluor™) Antibody, Alexa Fluor® 647 anti-mouse CD11c, Spark PLUS V475™ anti-mouse CD11c Antibody, Pacific Blue™ anti-mouse CD11c, PerCP anti-mouse CD11c, APC/Fire™ 810 anti-mouse CD11c Antibody, PE/Fire™ 640 anti-mouse CD11c Antibody, PE/Cyanine5 anti-mouse CD11c, PE/Cyanine7 anti-mouse CD11c, Spark UV™ 387 anti-mouse CD11c, Spark YG™ 581 anti-mouse CD11c (Flexi-Fluor™), Alexa Fluor® 488 anti-mouse CD11c, PerCP/Cyanine5.5 anti-mouse CD11c, Brilliant Violet 750™ anti-mouse CD11c, TotalSeq™-B0106 anti-mouse CD11c, Spark Blue™ 550 anti-mouse CD11c, Spark PLUS B550™ anti-mouse CD11c, Alexa Fluor® 700 anti-mouse CD11c, APC/Cyanine7 anti-mouse CD11c

Product Data



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



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

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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