

## Purified anti-mouse CD11c (Maxpar<sup>®</sup> Ready) Antibody

<b>Catalog# / Size</b>	117341 / 100 µg
<b>Clone</b>	N418
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	αX integrin, integrin αX chain, CR4, p150, ITGAX
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	CD11c is a 150 kD glycoprotein also known as α <sub>X</sub> integrin, CR4, and p150. CD11c forms a α <sub>X</sub> β <sub>2</sub> heterodimer with β <sub>2</sub> 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 <sub>X</sub> β <sub>2</sub> integrin plays an important role in cell-cell contact by binding its ligands: iC3b, fibrinogen, and CD54.

### Product Details

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Mouse spleen dendritic cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF<sup>®</sup> - Verified</a>
<b>Recommended Usage</b>	This product is suitable for use with the <a href="#">Maxpar<sup>®</sup> Metal Labeling Kits</a> . For metal labeling using Maxpar <sup>®</sup> Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar <sup>®</sup> Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar <sup>®</sup> User Guide when conjugating Maxpar <sup>®</sup> Ready antibodies.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>3</sup> , immunohistochemical staining of acetone-fixed frozen sections <sup>3</sup> , immunofluorescence microscopy <sup>5,9</sup> (Alexa Fluor <sup>®</sup> 488 conjugated N418 was used for IHC in frozen sections <sup>10</sup> ), and spatial biology (IBEX) <sup>22,23</sup> .
<b>Additional Product Notes</b>	Maxpar <sup>®</sup> is a registered trademark of Standard BioTools Inc.
<b>Application References</b>	<ol style="list-style-type: none"> <li>Granucci F, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:1794.</li> <li>Stokes RW, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:5514.</li> <li>Metlay JP, <i>et al.</i> 1990. <i>J. Exp. Med.</i> 171:1753. (IHC, IP)</li> <li>Ma XT, <i>et al.</i> 2006. <i>Cancer Research</i> 66:1169.</li> <li>Chin RK, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:290. (IF)</li> <li>Cervantes-Barragan L, <i>et al.</i> 2007. <i>Blood</i> 109:1131. (FC) <a href="#">PubMed</a></li> <li>Turnquist HR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:7018. (FC) <a href="#">PubMed</a></li> <li>Benson MJ, <i>et al.</i> 2007. <i>J. Exp. Med.</i> doi:10.1084/jem.20070719. (FC) <a href="#">PubMed</a></li> <li>You Y, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:7343. (IF) <a href="#">PubMed</a></li> <li>Roland CL, <i>et al.</i> 2009. <i>Mol. Cancer Res.</i> 8:1761. (IHC, FC) <a href="#">PubMed</a></li> <li>Wikstrom M, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:913. <a href="#">PubMed</a></li> <li>Pericolini E, <i>et al.</i> 2008. <i>J. Leukocyte Biol.</i> 83:1286. <a href="#">PubMed</a></li> <li>Randall LM, <i>et al.</i> 2008. <i>Infect. Immun.</i> 76:3312. <a href="#">PubMed</a></li> <li>Fahlen-Yrild L, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:5032. <a href="#">PubMed</a></li> <li>Osterholzer JJ, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:8044. <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

16. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) [PubMed](#)
17. Eisenach PA, *et al.* 2010. *J Cell Sci.* 123:4182. [PubMed](#)
18. Leppin K, *et al.* 2014. *Invest. Ophthalmol. Vis. Sci.* 55:3603. [PubMed](#)
19. Sakai F, *et al.* 2014. *PLoS One.* 9:105370. [PubMed](#)
20. Gibbins JD, *et al.* 2014. *Blood.* 124:2953. [PubMed](#)
21. White CE, *et al.* 2015. *J Immunol.* 194:697. [PubMed](#)
22. Lu X, *et al.* 2015. *J Immunol.* 194:2011. [PubMed](#)
23. Radtke AJ, *et al.* 2020. *Proc Natl Acad Sci U S A.* 117:33455-65. (SB) [PubMed](#)
24. Radtke AJ, *et al.* 2022. *Nat Protoc.* 17:378-401. (SB) [PubMed](#)

#### Product Citations

1. Wei SC *et al.* 2017. *Cell.* 170(6):1120-1133. [PubMed](#)
2. Wei SC, *et al.* 2019. *Immunity.* 50:1084. [PubMed](#)
3. Janela B, *et al.* 2019. *Immunity.* 50:1069. [PubMed](#)
4. Jordan S, *et al.* 2020. *Cell.* 178(5):1102-1114.e17.. [PubMed](#)

#### RRID

AB\_2562807 (BioLegend Cat. No. 117341)

## Antigen Details

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<b>Structure</b>	Integrin $\alpha$ -chain, associates with integrin $\beta_2$ (CD18), 150 kD
<b>Distribution</b>	Dendritic cells, NK cells, intestinal intraepithelial lymphocytes (IEL), some activated T cells
<b>Function</b>	Cellular adhesion
<b>Ligand/Receptor</b>	iC3b, fibrinogen
<b>Cell Type</b>	Dendritic cells, Epithelial cells, NK cells, T cells, Tregs
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen Facts Book</i> Academic Press.</li> <li>2. Springer TA. 1994. <i>Cell</i> 76:301.</li> <li>3. Lopez-Rodriguez C, <i>et al.</i> 1996. <i>J. Immunol.</i> 156:3780.</li> </ol>
<b>Gene ID</b>	<a href="#">16411</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

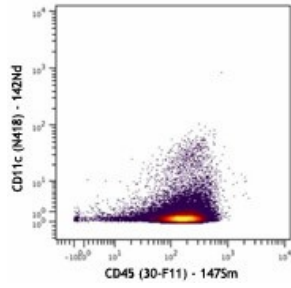
## Other Formats

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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

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Mouse splenocytes stained with <sup>147</sup>Sm-anti-CD45 (30-F11) and <sup>142</sup>Nd-anti-CD11c (N418). Data provided by DVS Sciences.

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587