

## Spark UV™ 387 anti-mouse CD11c Antibody

<b>Catalog# / Size</b>	117369 / 25 µg 117370 / 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 αX integrin, CR4, and p150. CD11c forms a αXβ2 heterodimer with β2 integrin (CD18). It is primarily expressed on dendritic cells, NK cells, a subset of intestinal intraepithelial lymphocytes (IEL), and some activated T cells. The αXβ2 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
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Spark UV™ 387 under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark UV™ 387 has a maximum excitation of 351 nm and a maximum emission of 387 nm.
<b>Excitation Laser</b>	Ultraviolet Laser (355 nm)
<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® 488 conjugated N418 was used for IHC in frozen sections <sup>10</sup> ), and spatial biology (IBEX) <sup>22,23</sup> .
<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> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

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**RRID** AB\_2924456 (BioLegend Cat. No. 117369)  
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## 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](#)

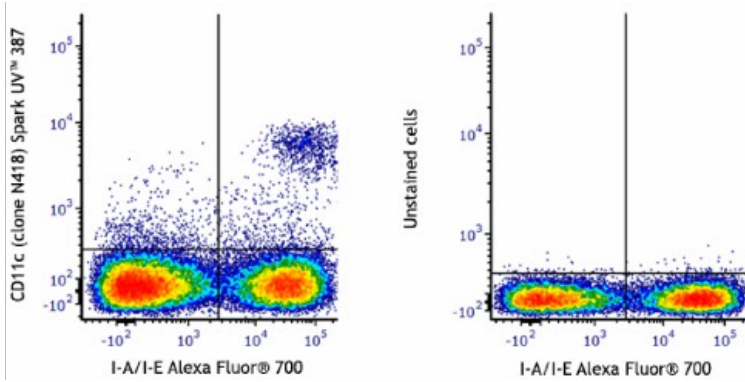
## Other Formats

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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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C57BL/6 mouse splenocytes were stained with anti-mouse I-A/I-E Alexa Fluor® 700 and with anti-mouse CD11c (clone N418) Spark UV™ 387 (left) or stained with anti-mouse I-A/I-E Alexa Fluor® 700 only (right).

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