

## APC/Fire™ 750 anti-human CD11c Antibody

<b>Catalog# / Size</b>	371509 / 25 tests 371510 / 100 tests
<b>Clone</b>	S-HCL-3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Integrin $\alpha$ X subunit, CR4, p150, ITGAX
<b>Isotype</b>	Mouse IgG2b, $\kappa$
<b>Description</b>	CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin $\alpha$ X and CR4. CD11c non-covalently associates with integrin $\beta$ 2 (CD18) and is expressed on monocytes/macrophages, dendritic cells, granulocytes, NK cells, and subsets of T and B cells. CD11c has been reported to play a role in adhesion and CTL killing through its interactions with fibrinogen, CD54, and iC3b.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Spleen cells from patient diagnosed with hairy cell leukemia.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.  * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemistry on frozen tissue sections <sup>1,2,3,4</sup> and immunoprecipitation <sup>1</sup> .
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Schwarting R, <i>et al.</i> 1985. <i>Blood</i> 65:974.</li><li>2. Knowles DM, <i>et al.</i> 1990. <i>Am. J. Pathol.</i> 136:29.</li><li>3. Vandenabeele S, <i>et al.</i> 2001. <i>Blood</i> 97:1733.</li><li>4. Shaw JL, <i>et al.</i> 2011. <i>J. Reprod. Immunol.</i> 89:84.</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Pizzolla A, <i>et al.</i> 2021. <i>Methods Mol Biol.</i> 2265:529. <a href="#">PubMed</a></li><li>2. Chakraborty S, <i>et al.</i> 2022. <i>Sci Transl Med.</i> . <a href="#">PubMed</a></li><li>3. Swartz AM, <i>et al.</i> 2022. <i>Curr Protoc.</i> 2:e410. <a href="#">PubMed</a></li><li>4. Asokan M, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:18754. <a href="#">PubMed</a></li><li>5. Woodruff M, <i>et al.</i> 2020. <i>medRxiv.</i> . <a href="#">PubMed</a></li><li>6. Parker R, <i>et al.</i> 2021. <i>Cell Reports.</i> 35(8):109179. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2650792 (BioLegend Cat. No. 371509) AB_2650793 (BioLegend Cat. No. 371510)

## Antigen Details

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<b>Structure</b>	Integrin, type I transmembrane glycoprotein, associates with integrin $\beta$ 2 (CD18), 145-150 kD.
<b>Distribution</b>	Myeloid, dendritic cells, NK cells, B cells and T cell subsets.
<b>Function</b>	Adhesion and CTL killing.
<b>Interaction</b>	Interacts with fibrinogen, CD54, and iC3b.
<b>Ligand/Receptor</b>	CD54, fibrinogen, iC3b, ICAM-1, ICAM-4
<b>Cell Type</b>	B cells, Dendritic cells, NK cells, T cells
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Petty HR, Todd RF 3rd. 1996. <i>Immunol. Today</i> 17:209. 2. Springer T. 1994. <i>Cell</i> 76:301. 3. Ihanus E, <i>et al.</i> 2007. <i>Blood</i> 109:802-10.
<b>Gene ID</b>	<a href="#">3687</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

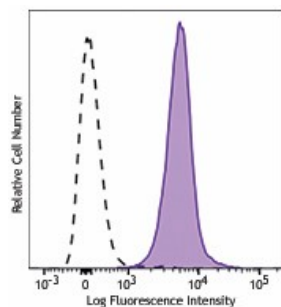
## Other Formats

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Purified anti-human CD11c, APC anti-human CD11c, PE anti-human CD11c, PE/Cyanine7 anti-human CD11c, Brilliant Violet 421™ anti-human CD11c, APC/Fire™ 750 anti-human CD11c, FITC anti-human CD11c, PerCP/Cyanine5.5 anti-human CD11c, Brilliant Violet 510™ anti-human CD11c, TotalSeq™-A0053 anti-human CD11c, TotalSeq™-C0053 anti-human CD11c, TotalSeq™-B0053 anti-human CD11c, Alexa Fluor® 647 anti-human CD11c Antibody, TotalSeq™-D0053 anti-human CD11c

## Product Data

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Human peripheral blood granulocytes were stained with CD11c (clone S-HCL-3) APC/Fire™ 750 (filled histogram) or mouse IgG2b,  $\kappa$  APC/Fire™ 750 isotype control (open histogram).

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