

## GMP PerCP/Cyanine5.5 anti-human CD11c Antibody

<b>Catalog# / Size</b>	260290 / 100 tests
<b>Clone</b>	Bu15
<b>Workshop</b>	V S143
<b>Other Names</b>	Integrin $\alpha_x$ subunit, ITGAX, CR4, p150
<b>Isotype</b>	Mouse IgG1, $\kappa$
<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

<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	200.0 $\mu\text{g}/\text{mL}$
<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 5 $\mu\text{L}$ per million cells in 100 $\mu\text{L}$ staining volume or 5 $\mu\text{L}$ per 100 $\mu\text{L}$ of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone Bu15 has a different binding epitope than clone 3.9. The binding of Bu15 with CD11c is divalent cation independent. Additional reported applications (for the relevant formats of this clone) include: inhibition of CD11c mediated adhesion and stimulation of chemokine production by monocytes.
<b>Application References</b>	<ol style="list-style-type: none"> <li>Sadhu C, <i>et al.</i> 2008. <i>J. Immunoass. Immunoch.</i> 29:42.</li> <li>Rezzonico R, <i>et al.</i> 2001. <i>Blood</i> 97:2932.</li> <li>Sadhu C, <i>et al.</i> 2007. <i>J. Leukoc. Biol.</i> 81:1395.</li> <li>Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Disclaimer</b>	<b>GMP RUO Flow Cytometry Antibodies.</b> BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include: <ul style="list-style-type: none"> <li>• Batch-to-batch consistency</li> <li>• Material traceability</li> <li>• Documented procedures</li> <li>• Documented employee training</li> <li>• Equipment maintenance and monitoring records</li> </ul>

- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

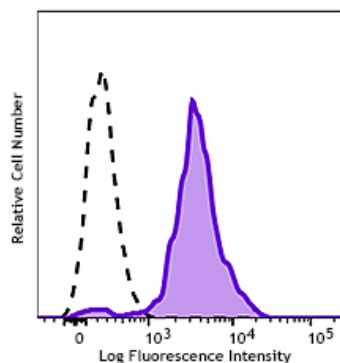
## Antigen Details

<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, CTL killing Ligand Receptor: CD54, fibrinogen, iC3b, ICAM-1, ICAM-4 Antigen
<b>Cell Type</b>	B cells, Dendritic cells, Neutrophils, NK cells, T cells
<b>Biology Area</b>	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Petty H. 1996. <i>Immunol. Today</i> 17:209.</li> <li>2. Springer T. 1994. <i>Cell</i> 76:301.</li> <li>3. Ihanus E, <i>et al.</i> 2007. <i>Blood</i> 109:802-810.</li> </ol>
<b>Gene ID</b>	<a href="#">3687</a>

## Other Formats

APC/Cyanine7 anti-human CD11c, Purified anti-human CD11c, PE anti-human CD11c, APC anti-human CD11c, PerCP/Cyanine5.5 anti-human CD11c, Pacific Blue™ anti-human CD11c, FITC anti-human CD11c, PE/Cyanine7 anti-human CD11c, Alexa Fluor® 700 anti-human CD11c, Purified anti-human CD11c (Maxpar® Ready), Brilliant Violet 421™ anti-human CD11c, PE/Dazzle™ 594 anti-human CD11c, Biotin anti-human CD11c, Alexa Fluor® 647 anti-human CD11c, PerCP anti-human CD11c, Alexa Fluor® 488 anti-human CD11c, Brilliant Violet 650™ anti-human CD11c, APC/Fire™ 750 anti-human CD11c, GMP PE anti-human CD11c, GMP APC anti-human CD11c

## Product Data



Typical results from human peripheral blood monocytes stained either with Bu15 PerCP/Cyanine5.5 used at 5  $\mu$ L/test (filled histogram) or with an isotype control (open histogram).

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