

## Alexa Fluor<sup>®</sup> 700 anti-human CD11c Antibody

<b>Catalog# / Size</b>	337219 / 25 tests 337220 / 100 tests
<b>Clone</b>	Bu15
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V S143
<b>Other Names</b>	Integrin $\alpha$ 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 $\alpha$ <sub>x</sub> and CR4. CD11c non-covalently associates with integrin $\beta$ <sub>2</sub> (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>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 Alexa Fluor <sup>®</sup> 700 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> . 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. It is highly recommended that the reagent be titrated for optimal performance for each application.  * Alexa Fluor <sup>®</sup> 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor <sup>®</sup> 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.  Alexa Fluor <sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.  <a href="#">View full statement regarding label licenses</a>
<b>Excitation Laser</b>	Red Laser (633 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>	1. Sadhu C, <i>et al.</i> 2008. <i>J. Immunoass. Immunoch.</i> 29:42. 2. Rezzonico R, <i>et al.</i> 2001. <i>Blood</i> 97:2932. 3. Sadhu C, <i>et al.</i> 2007. <i>J. Leukoc. Biol.</i> 81:1395. 4. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)
<b>(PubMed link indicates BioLegend citation)</b>	

## Product Citations

1. Skronska-Wasek W, *et al.* 2021. *Eur Respir J.* :2002732. [PubMed](#)
2. Alcántara-Hernández M *et al.* 2017. *Immunity.* 47(6):1037-1050 . [PubMed](#)
3. Durlanik S, *et al.* 2021. *Sci Rep.* 11:14849. [PubMed](#)
4. Kaneko N, *et al.* 2020. *Cell.* 183(1):143-157.e13. [PubMed](#)
5. Panwar B, *et al.* 2021. *Genome Res.* 31:659. [PubMed](#)
6. Leylek R, *et al.* 2019. *Cell Rep.* 29:3736. [PubMed](#)
7. Martínez-López M *et al.* 2019. *Immunity.* 50(2):446-461 . [PubMed](#)
8. Leylek R, *et al.* 2020. *Cell Rep.* 32:108180. [PubMed](#)

## RRID

AB\_2561502 (BioLegend Cat. No. 337219)  
AB\_2561503 (BioLegend Cat. No. 337220)

## 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, 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>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

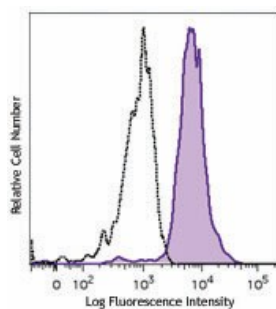
## Other Formats

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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

## Product Data

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Human peripheral blood monocytes were stained with CD11c (clone Bu15) Alexa Fluor® 700 (filled histogram) or mouse IgG1,  $\kappa$  Alexa Fluor® 700 (open histogram).

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