

## Brilliant Violet 650™ anti-human CD11c Antibody

<b>Catalog# / Size</b>	337237 / 25 tests 337238 / 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

---

<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 Brilliant Violet 650™ 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>	<p>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 <math>\mu</math>l per million cells in 100 <math>\mu</math>l staining volume or 5 <math>\mu</math>l per 100 <math>\mu</math>l of whole blood.</p> <p>Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 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.

- Application References**
1. Sadhu C, *et al.* 2008. *J. Immunoass. Immunoch.* 29:42.
  2. Rezzonico R, *et al.* 2001. *Blood* 97:2932.
  3. Sadhu C, *et al.* 2007. *J. Leukoc. Biol.* 81:1395.
  4. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
- (PubMed link indicates BioLegend citation)

- Product Citations**
1. Ziegler CGK, *et al.* 2021. *Cell.* 184(18):4713-4733.e22. [PubMed](#)

**RRID**

AB\_2721551 (BioLegend Cat. No. 337237)  
AB\_2721552 (BioLegend Cat. No. 337238)

## 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>

## Related Protocols

---

[Cell Surface Flow Cytometry Staining Protocol](#)

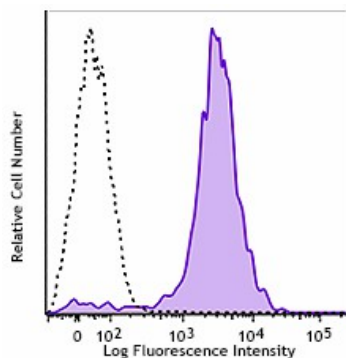
## Other Formats

---

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

## Product Data

---



Human peripheral blood monocytes were stained with CD11c (clone Bu15) Brilliant Violet 650™ (filled histogram), or mouse IgG1,  $\kappa$  Brilliant Violet 650™ isotype control (open histogram).

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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