

## Purified anti-human CD11c (Maxpar<sup>®</sup> Ready) Antibody

<b>Catalog# / Size</b>	337221 / 100 µg
<b>Clone</b>	Bu15
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V S143
<b>Other Names</b>	Integrin αx subunit, ITGAX, CR4, p150
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin α <sub>x</sub> and CR4. CD11c non-covalently associates with integrin β <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 EDTA.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF<sup>®</sup> - Verified</a>
<b>Recommended Usage</b>	This product is suitable for use with the <a href="#">Maxpar<sup>®</sup> Metal Labeling Kits</a> . For metal labeling using Maxpar <sup>®</sup> Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar <sup>®</sup> Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar <sup>®</sup> User Guide when conjugating Maxpar <sup>®</sup> Ready antibodies.
<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>Additional Product Notes</b>	Maxpar <sup>®</sup> is a registered trademark of Standard BioTools Inc.
<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>	
<b>Product Citations</b>	1. Gadalla R, <i>et al.</i> 2022. <i>STAR Protoc.</i> 3:101643. <a href="#">PubMed</a> 2. Wagner J <i>et al.</i> 2019. <i>Cell.</i> 177(5):1330-1345. <a href="#">PubMed</a> 3. Stras SF, <i>et al.</i> 2020. <i>Developmental Cell.</i> 51(3):357-373.e5.. <a href="#">PubMed</a> 4. Gide TN, <i>et al.</i> 2019. <i>Cancer Cell.</i> 35:238. <a href="#">PubMed</a> 5. Dumas AA, <i>et al.</i> 2020. <i>EMBO J.</i> 39:e103790. <a href="#">PubMed</a> 6. Schulte-Schrepping J, <i>et al.</i> 2020. <i>Cell.</i> 182(6):1419-1440. <a href="#">PubMed</a> 7. Cheung P, <i>et al.</i> 2018. <i>Cell.</i> 173:1385. <a href="#">PubMed</a> 8. Jordan S, <i>et al.</i> 2020. <i>Cell.</i> 178(5):1102-1114.e17.. <a href="#">PubMed</a> 9. Georg P, <i>et al.</i> 2022. <i>Cell.</i> 185:493. <a href="#">PubMed</a>

RRID AB\_2562834 (BioLegend Cat. No. 337221)

## 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>	1. Petty H. 1996. <i>Immunol. Today</i> 17:209. 2. Springer T. 1994. <i>Cell</i> 76:301. 3. Ihanus E, et al. 2007. <i>Blood</i> 109:802-810.
<b>Gene ID</b>	<a href="#">3687</a>

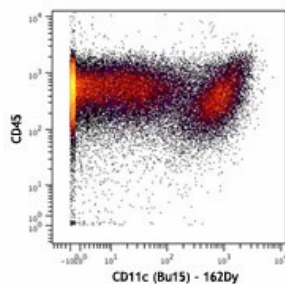
## Related Protocols

[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 PBMCs stained with 154Sm-anti-CD45 (HI30) and 162Dy-anti-CD11c (Bu15). Data provided by DVS Sciences.

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