

## Purified anti-mouse/rat CD61 Antibody

<b>Catalog# / Size</b>	104302 / 500 µg
<b>Clone</b>	2C9.G2 (HMβ3-1)
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	β3 integrin, Integrin β3 chain, gp11a
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	CD61 is a 110 kD integrin β chain also known as β3 integrin or gp11a. It associates with the integrin α <sub>v</sub> chain (CD51) to form the vitronectin receptor. In addition, CD61 can associate with the integrin α <sub>IIb</sub> chain (CD41) to form the gp11b/IIIa complex. CD61 is expressed on platelets, megakaryocytes, endothelium, smooth muscle, a subset of B cells, myeloid cells, osteoclasts, and mast cells. CD61, in conjunction with CD41 or CD51, mediates adhesion to fibronectin, fibrinogen, vitronectin, thrombospondin, and von Willebrand factor. Leukocyte-endothelial adhesion is mediated by the binding of α <sub>v</sub> /β3 integrin or vitronectin receptor to CD31 (PECAM-1).

### Product Details

<b>Verified Reactivity</b>	Mouse, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Vitronectin receptor protein from the mouse T-cell hybridoma 2B4.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 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="#">IHC - Reported in the literature, not verified in house</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 ≤ 1.0 µg per 10 <sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104325 and 104326).
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Kieffer N, <i>et al.</i> 1990. <i>Annu. Rev. Cell Biol.</i> 6:329. (Block)</li> <li>2. Piali L, <i>et al.</i> 1995. <i>J. Cell Biol.</i> 130:451. (Block)</li> <li>3. Ashkar S, <i>et al.</i> 2000. <i>Science</i> 287:860. (Block)</li> <li>4. Schultz JF, <i>et al.</i> 1995. <i>J. Biol. Chem.</i> 270:11522. (Block)</li> <li>5. Moulder K, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 173:343. (Activ)</li> <li>6. Carlson TR, <i>et al.</i> 2008.135:2193. <a href="#">PubMed</a></li> <li>7. Yamaji D, <i>et al.</i> 2009. <i>Genes Dev.</i> 23:2382. <a href="#">PubMed</a></li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Hutton C, <i>et al.</i> 2021. <i>Cancer Cell.</i> 39:1227. <a href="#">PubMed</a></li> <li>2. Sereni L, <i>et al.</i> 2018. <i>J Allergy Clin Immunol.</i> 142:1272. <a href="#">PubMed</a></li> <li>3. Nakamura-Ishizu A <i>et al.</i> 2018. <i>Cell reports.</i> 25(7):1772-1785. <a href="#">PubMed</a></li> <li>4. O'Dea KP, <i>et al.</i> 2020. <i>J Extracell Vesicles.</i> 9:1706708. <a href="#">PubMed</a></li> <li>5. Carlson T, <i>et al.</i> 2008. <i>Development.</i> 135:2193. <a href="#">PubMed</a></li> <li>6. Lagarrigue F, <i>et al.</i> 2018. <i>Blood Adv.</i> 1.720833333. <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

## Antigen Details

<b>Structure</b>	Integrin family, 110 kD
<b>Distribution</b>	Platelets, megakaryocytes, endothelium, smooth muscle, activated T cells, subset of B cells, monocytes, macrophages, osteoclasts, mast cells
<b>Function</b>	Attachment to matrix
<b>Ligand/Receptor</b>	Fibrinogen, von Willebrand factor, fibronectin
<b>Cell Type</b>	B cells, Endothelial cells, Macrophages, Mast cells, Megakaryocytes, Monocytes, Osteoclasts, Platelets, T cells
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook. Academic Press.</li> <li>2. Phillips DR, <i>et al.</i> 1991. <i>Cell</i>. 65:359.</li> <li>3. Felding-Habermann B, <i>et al.</i> 1993. <i>Curr Opin Cell Biol</i>. 5:864.</li> </ol>
<b>Gene ID</b>	<a href="#">16416</a> <a href="#">29302</a>

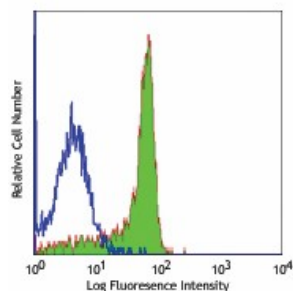
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Biotin anti-mouse/rat CD61, FITC anti-mouse/rat CD61, PE anti-mouse/rat CD61, Purified anti-mouse/rat CD61, Alexa Fluor® 488 anti-mouse/rat CD61, Alexa Fluor® 647 anti-mouse/rat CD61, APC anti-mouse/rat CD61, PE/Cyanine7 anti-mouse/rat CD61, PerCP/Cyanine5.5 anti-mouse/rat CD61, PE/Dazzle™ 594 anti-mouse/rat CD61, TotalSeq™-C0910 anti-mouse/rat CD61, Ultra-LEAF™ Purified anti-mouse/rat CD61, TotalSeq™-A0910 anti-mouse/rat CD61, TotalSeq™-B0910 anti-mouse/rat CD61

## Product Data



C57BL/6 mouse bone marrow cells stained with purified 2C9.G2, followed by anti-Armenian hamster IgG FITC

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