

## Alexa Fluor<sup>®</sup> 700 anti-human CD61 Antibody

<b>Catalog# / Size</b>	336419 / 25 tests 336420 / 100 tests
<b>Clone</b>	VI-PL2
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Integrin $\beta$ 3, gpIIa
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD61, also known as integrin $\beta$ 3 and glycoprotein IIIa (gpIIIa), is a 90 kD type I integral transmembrane glycoprotein. It is a member of the integrin family, associating with platelet gpIIb (CD41) to form CD41/CD61 complex and with integrin $\alpha$ V (CD51) to form $\alpha$ V/ $\beta$ 3 (CD51/CD61) integrin. CD41/CD61 is expressed on platelets and megakaryocytes, and plays a role in platelet activation and aggregation through interaction with fibrinogen, fibronectin, vWF, and other RGD-containing adhesion molecules. CD51/CD61 is expressed on platelets, osteoclasts, fibroblasts, macrophages, and some tumor cells involved in tumor metastasis, and in adenovirus infection through binding to RGD motif in extracellular matrix proteins.

### Product Details

<b>Reactivity</b>	Human, African Green, Baboon, Cynomolgus, Rhesus
<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 0.2% (w/v) 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> . For flow cytometric staining, 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.  * 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>	Additional reported applications (for the relevant formats) include: Western blotting and immunohistochemical staining of frozen tissue sections.
<b>Application References</b>	1. Davies J, <i>et al.</i> 1989. <i>J. Cell Biol.</i> 109:1817. 2. Roberts M, <i>et al.</i> 2004. <i>Mol. Cell. Biol.</i> 24:1505. 3. Ciarlet M, <i>et al.</i> 2002. <i>J. Virol.</i> 76:1109.
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2716112 (BioLegend Cat. No. 336419) AB_2716113 (BioLegend Cat. No. 336420)

## Antigen Details

<b>Structure</b>	Type I integral glycoprotein, integrin family, associates with CD41 (gpIIb) forming CD41/CD61 complex or with CD51 (integrin $\alpha$ V) forming CD51/CD61 complex, 90 kD
<b>Distribution</b>	CD41/CD61 complex is expressed on platelets and megakaryocytes; CD51/CD61 complex is expressed on platelets, osteoclasts, fibroblasts, macrophages, and some tumor cells
<b>Function</b>	Adhesion, platelet activation and aggregation
<b>Ligand/Receptor</b>	Fibronectin, vitronectin, vWF
<b>Cell Type</b>	Fibroblasts, Megakaryocytes, Osteoclasts, Platelets
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	1. Zola H, <i>et al.</i> 2007. Leukocyte and Stromal Cell Molecules: The CD Markers.
<b>Gene ID</b>	<a href="#">3690</a>

## Related Protocols

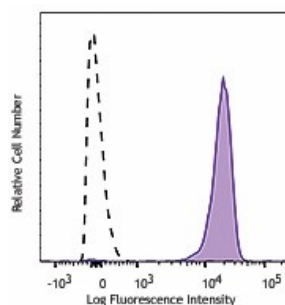
[Cell Surface Flow Cytometry Staining Protocol](#)

[Immunocytochemistry Staining Protocol](#)

## Other Formats

Purified anti-human CD61, FITC anti-human CD61, PE anti-human CD61, Alexa Fluor® 647 anti-human CD61, PerCP anti-human CD61, APC anti-human CD61, Purified anti-human CD61 (Maxpar® Ready), PE/Cyanine7 anti-human CD61, PerCP/Cyanine5.5 anti-human CD61, APC/Fire™ 750 anti-human CD61, Alexa Fluor® 700 anti-human CD61, TotalSeq™-A0372 anti-human CD61, PE/Dazzle™ 594 anti-human CD61, TotalSeq™-C0372 anti-human CD61

## Product Data



Human peripheral blood platelets were stained with CD61 (clone VI-PL2) Alexa Fluor® 700 (filled histogram) or mouse IgG1,  $\kappa$  Alexa Fluor® 700 isotype control (open histogram).

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