

FITC anti-human CD61 Antibody

Catalog# / Size	336403 / 25 tests 336404 / 100 tests
Clone	VI-PL2
Regulatory Status	RUO
Other Names	Integrin β 3, gpIIa
Isotype	Mouse IgG1, κ
Description	CD61, also known as integrin β 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 α V (CD51) to form α V/ β 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

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting and immunohistochemical staining of frozen tissue sections.
Application References	<ol style="list-style-type: none"> 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.
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> 1. Leimkühler NB, <i>et al.</i> 2020. <i>Cell Stem Cell.</i> 28:637. PubMed 2. Balatskaya MN, <i>et al.</i> 2021. <i>Membranes (Basel).</i> 11: PubMed 3. Biondi BE, <i>et al.</i> 2021. <i>Contemp Clin Trials Commun.</i> 21:100704. PubMed 4. Gleitz HFE, <i>et al.</i> 2021. <i>STAR Protocols.</i> 2(2):100538. PubMed 5. Haun F, <i>et al.</i> 2018. <i>Nat Commun.</i> 9:3524. PubMed 6. Suzuki D, <i>et al.</i> 2020. <i>Stem Cell Reports.</i> 14:49. PubMed 7. Gertz J, Meuser M, and Bouchard B. 2017. <i>Cytometry A.</i> 10.1002/cyto.a.23161. PubMed 8. Langnau C, <i>et al.</i> 2021. <i>Arterioscler Thromb Vasc Biol.</i> 41:2080. PubMed

RRID AB_1227581 (BioLegend Cat. No. 336403)
AB_1227580 (BioLegend Cat. No. 336404)

Antigen Details

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

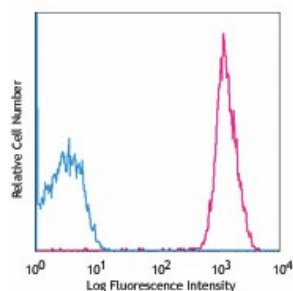
Related Protocols

[Cell Surface Flow Cytometry 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, TotalSeq™-D0372 anti-human CD61

Product Data



Human peripheral blood platelets stained with VI-PL2 FITC

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*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). 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
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587

