

Brilliant Violet 510™ anti-human CD61 Antibody

Catalog# / Size	336433 / 25 tests 336434 / 100 tests
Clone	VI-PL2
Regulatory Status	RUO
Other Names	Integrin β 3, gpIIIa
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 Brilliant Violet 510™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 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 510™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting and immunohistochemical staining of frozen tissue sections.
Application References	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)	
RRID	AB_3662233 (BioLegend Cat. No. 336433) AB_3662233 (BioLegend Cat. No. 336434)

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. <i>Leukocyte and Stromal Cell Molecules: The CD Markers.</i>
Gene ID	3690

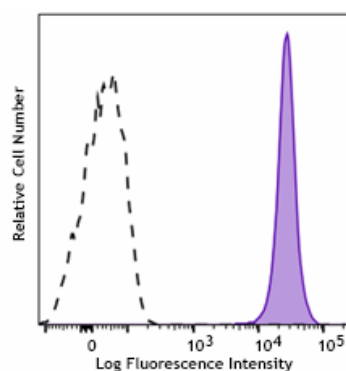
Related Protocols

- [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, TotalSeq™-B0372 anti-human CD61, Brilliant Violet 510™ anti-human CD61, Brilliant Violet 650™ anti-human CD61, GMP FITC anti-human CD61

Product Data



Human peripheral blood platelets were stained with anti-human CD61 (clone VI-PL2) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ isotype control (open histogram).

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