

# CD61 (Integrin beta 3) Monoclonal Antibody (VI-PL2), Super Bright™ 645, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Baboon, Dog, Cynomolgus monkey, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	VI-PL2
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744866

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	2 Publications

## Product Specific Information

**Description:** The VI-PL2 monoclonal antibody reacts with human CD61, also known as integrin beta 3 and GPIIb. CD61 is a 90-110 kDa member of the beta integrin family expressed by a wide variety of cells, including leukocytes, platelets, endothelial and smooth muscle cells. CD61 binds non-covalently with the alpha integrins CD41 and CD51, to form the alpha IIb beta3 (CD41/CD61) and alpha v beta3 (CD51/CD61) complexes. These alpha beta heterodimers are capable of mediating a variety of cellular responses including adhesion, trafficking, proliferation and differentiation. The CD41/CD61 integrin has been shown to be involved in platelet aggregation, and binds to fibrinogen, von Willebrand Factor (vWF) and fibronectin. The CD51/CD61 integrin binds to matrix proteins including vitronectin, fibronectin, vWF and fibrinogen, and has been shown to have a strong role in modulating the migration and survival of angiogenic endothelial cells.

This VI-PL2 antibody has also been shown to crossreact with canine and several non-human primate species, including baboon, rhesus, and cynomolgus monkey.

**Applications Reported:** This VI-PL2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This VI-PL2 antibody has been pre-diluted and tested by flow cytometric analysis of normal human platelets. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

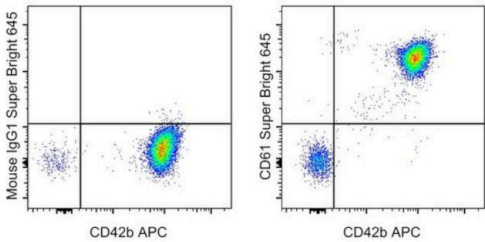
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD61 (Integrin beta 3) Monoclonal Antibody (VI-PL2), Super Bright™ 645, eBioscience™



**CD61 (Integrin beta 3) Antibody (64-0619-42) in Flow**  
Staining of human platelets with CD42b Monoclonal Antibody, APC (Product # 17-0429-42) and Mouse IgG1 kappa Isotype Control, Super Bright 645 (Product # 64-4714-82) (left) or CD61 Monoclonal Antibody, Super Bright 645 (right). Total viable cells were used for analysis.

2 References

Flow Cytometry (2)

Frontiers in cell and developmental biology	Year
<b>Neuropilin-1 modulates the 3D invasive properties of glioblastoma stem-like cells.</b>	2022
"Published figure using CD61 (Integrin beta 3) monoclonal antibody (Product # 64-0619-42) in Flow Cytometry"	
Authors: Kerhervé M,Rosiska S,Trillet K,Zeinaty A,Feyoux M,Nedellec S,Gavard J	
Frontiers in cell and developmental biology	Year
<b>Polycomb Factor PHF19 Controls Cell Growth and Differentiation Toward Erythroid Pathway in Chronic Myeloid Leukemia Cells.</b>	2021
"Published figure using CD61 (Integrin beta 3) monoclonal antibody (Product # 64-0619-42) in Flow Cytometry"	
Authors: García-Montolio M,Ballaré C,Blanco E,Gutiérrez A,Aranda S,Gómez A,Kok CH,Yeung DT,Hughes TP,Vizán P, Di Croce L	

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