

# CD61 (Integrin beta 3) Monoclonal Antibody (VI-PL2), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Baboon, Dog, Cynomolgus monkey, Human, Rhesus monkey
Published Species	Dog, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	VI-PL2
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11042464

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	4 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.

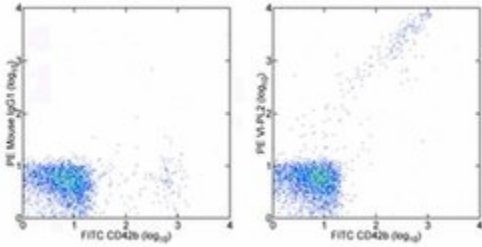
Applications Tested: This VI-PL2 antibody is offered in 2 formats: - µg size: has been tested by flow cytometric analysis. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is

recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by flow cytometric analysis. This can be used at 5  $\mu$ L (0.06  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD61 (Integrin beta 3) Monoclonal Antibody (VI-PL2), PE, eBioscience™



### CD61 (Integrin beta 3) Antibody (12-0619-42) in Flow

Staining of normal human peripheral blood platelets with Anti-Human CD42b FITC (Product # 11-0429-42) and Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD61 (Integrin beta 3) PE (right). CD42b negative events represent cell debris.

## 4 References

### Flow Cytometry (4)

Frontiers in cell and developmental biology

#### Polycomb Factor PHF19 Controls Cell Growth and Differentiation Toward Erythroid Pathway in Chronic Myeloid Leukemia Cells.

"Published figure using CD61 (Integrin beta 3) monoclonal antibody (Product # 12-0619-42) 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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Journal of veterinary internal medicine

#### Ehrlichia canis in dogs experimentally infected, treated, and then immune suppressed during the acute or subclinical phases.

"12-0619 was used in Flow cytometry/Cell sorting to determine whether administration of prednisolone and cyclosporine would reactivate E.canis infection in dogs previously treated with doxycycline during the acute or subclinical phases."

Authors: Sato M, Veir JK, Shropshire SB, Lappin MR

**Species**  
Dog

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

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