

Technical Data Sheet

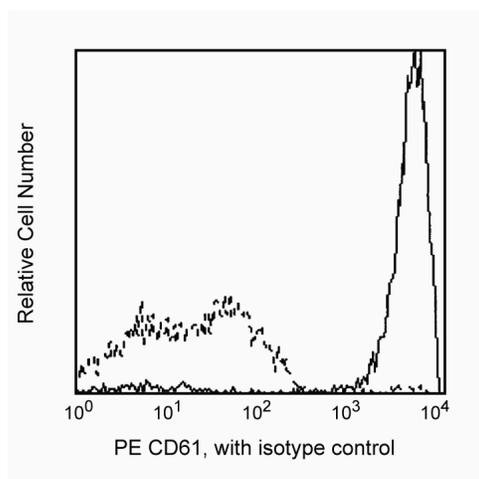
PE Mouse Anti-Human CD61

Product Information

Material Number:	561912
Alternate Name:	Integrin β 3; Integrin beta-3; GP3A; GPIIIa; ITGB3; ITB3
Size:	25 Tests
Vol. per Test:	20 μ l
Clone:	VI-PL2 (also known as VIPL2)
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human Tested in Development: Rhesus, Cynomolgus, Baboon, Dog, Cow
Workshop:	III 866; IV P83; V T-124
Storage Buffer:	Aqueous buffered solution containing BSA and \leq 0.09% sodium azide.

Description

The VI-PL2 monoclonal antibody specifically binds to CD61. CD61 is a 105 kDa transmembrane glycoprotein that is also known as integrin β 3 and platelet glycoprotein IIIa (GPIIIa or GP3A). It is expressed on platelets, megakaryocytes, osteoclasts and endothelia. Integrin β 3 associates with gpIIa (CD41) to form the CD41/CD61 complex which mediates platelet adhesion and aggregation. CD61 also associates with CD51 to form the CD51/CD61 complex (vitronectin receptor). CD61 appears to bind to fibrinogen, fibronectin, vWF, vitronectin, and thrombospondin to mediate cell adhesion.



Flow cytometric analysis of CD61 expression on human peripheral blood platelets. Platelets were stained with either PE Mouse Anti-Human CD61 (Cat. No. 555754/561912; solid line histogram) or PE Mouse IgG1, κ Isotype Control (Cat. No. 555749; dashed line histogram). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable platelets. Flow cytometry was performed on a BD FACScan™ system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
555749	PE Mouse IgG1, κ Isotype Control	100 Tests	MOPC-21
554657	Stain Buffer (BSA)	500 mL	(none)
555754	PE Mouse Anti-Human CD61	100 Tests	VI-PL2

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
7. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Kishimoto T. Tadimitsu Kishimoto . et al., ed. *Leucocyte typing VI : white cell differentiation antigens : proceedings of the sixth international workshop and conference held in Kobe, Japan, 10-14 November 1996*. New York: Garland Pub.; 1997(Biology)

Mason D. David Mason . et al., ed. *Leucocyte typing VII : white cell differentiation antigens : proceedings of the Seventh International Workshop and Conference held in Harrogate, United Kingdom*. Oxford: Oxford University Press; 2002(Biology)

Schlossman SF. Stuart F. Schlossman . et al., ed. *Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993*. Oxford: Oxford University Press; 1995(Clone-specific)