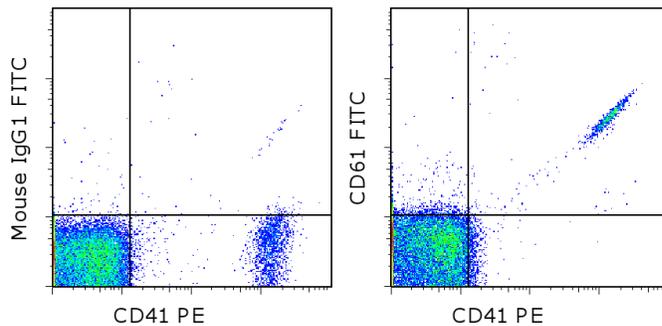


Anti-Human CD61 (Integrin beta 3) FITC

Catalog Number: 11-0619

Also known as: ITGB3

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of human platelets with Anti-Human CD41 PE (cat. 12-0419) and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Human CD61 (Integrin beta 3) FITC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD61 (Integrin beta 3) FITC

REF **Catalog Number:** 11-0619

Clone: VI-PL2

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide



Description

The VI-PL2 monoclonal antibody reacts with human CD61, also known as integrin beta 3 and GPIIIa. 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-titrated and tested by flow cytometric analysis of human platelets. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Barrett L, Dai C, Gamberg J, Gallant M, Grant M. Circulating CD14-CD36+ peripheral blood mononuclear cells constitutively produce interleukin-10. *J Leukoc Biol.* 2007 Jul;82(1):152-60. (**VI-PL2**, FC, PubMed)

Roberts MS, Woods AJ, Dale TC, Van Der Sluijs P, Norman JC. Protein kinase B/Akt acts via glycogen synthase kinase 3 to regulate recycling of alpha v beta 3 and alpha 5 beta 1 integrins. *Mol Cell Biol.* 2004 Feb;24(4):1505-15.

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(VI-PL2, FA, PubMed)

Ciarlet M, Crawford SE, Cheng E, Blutt SE, Rice DA, Bergelson JM, Estes MK. VLA-2 (alpha2beta1) integrin promotes rotavirus entry into cells but is not necessary for rotavirus attachment. J Virol. 2002 Feb;76(3):1109-23.
(VI-PL2, FA, PubMed)

Related Products

11-0611 Anti-Mouse/Rat CD61 (Integrin beta 3) FITC (2C9.G3)

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)

12-0429 Anti-Human CD42b PE (HIP1)

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