

TECHNICAL DATA SHEET

CyFlow™ CD61 PE-Cy7 Anti-Hu; Clone VIPL2

REF CG662113

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD61
Alternative Names	GP1IIa
Clone	VIPL2
Clonality	monoclonal
Format	PE-Cy7
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	< no data >

Specificity

The mouse monoclonal antibody VIPL2 recognizes CD61 antigen, a 90-110 kDa transmembrane glycoprotein of integrin family, expressed on platelets, megacaryocytes, osteoclasts, endothelial cells and other cell types, including leukocytes and smooth muscle cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD61 (β3 integrin) is a transmembrane glycoprotein, which associates with CD41 or CD51 molecules to form heterodimeric adhesion receptors. CD41/CD61 complex is one of the earliest markers of the megakaryocytic lineage. It binds to fibronectin, fibrinogen and von Willebrand factor, and is involved in platelet aggregation. CD51/CD61 complex has similar binding properties and is involved in modulating migration and survival of angiogenic endothelial cells.

References

- Dzionek A, Fuchs A, Schmidt P, Cremer S, Zysk M, Miltenyi S, Buck DW, Schmitz J: BDCA-2, BDCA-3, and BDCA-4: three markers for distinct subsets of dendritic cells in human peripheral blood. J Immunol. 2000 Dec 1; 165(11):6037-46. < PMID: 11086035 >
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- 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. < PMID: 14749368 >

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- Williams CA, Mondal D, Agrawal KC: The HIV-1 Tat protein enhances megakaryocytic commitment of K562 cells by facilitating CREB transcription factor coactivation by CBP. Exp Biol Med (Maywood). 2005 Dec; 230(11):872-84. < PMID: 16339753 >
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- 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. < PMID: 17412916 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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