

Datasheet for ABIN1027701

anti-Integrin beta 3 antibody (PE)**2** Images**6** Publications[Go to Product page](#)

Overview

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|--------------|---|
| Quantity: | 100 tests |
| Target: | Integrin beta 3 (ITGB3) |
| Reactivity: | Human, Non-Human Primate |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Integrin beta 3 antibody is conjugated to PE |
| Application: | Flow Cytometry (FACS) |

Product Details

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| Clone: | VIPL2 |
| Isotype: | IgG1 kappa |
| Specificity: | The mouse monoclonal antibody VIPL2 recognizes an extracellular epitope of CD61, a 90-110 kDa transmembrane glycoprotein of integrin family, expressed on platelets, megacaryocytes, osteoclasts, endothelial cells and other cell types, including leucocytes and smooth muscle cells. |
| Cross-Reactivity (Details): | Human, Non-Human Primates |
| Purification: | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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| Target: | Integrin beta 3 (ITGB3) |
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Target Details

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| Alternative Name: | CD61 (ITGB3 Products) |
| Background: | <p>Integrin subunit beta 3,CD61 (beta3 integrin) is a transmembrane glycoprotein, which associates with CD41 or CD51 Molecules to form heterodimeric adhesion receptors.</p> <p>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.</p> <p>CD51/CD61 complex has similar binding properties and is involved in modulating migration and survival of angiogenic endothelial cells.,integrin beta 3, ITGB3, GP3A</p> |
| Gene ID: | 3690 |
| UniProt: | P05106 |
| Pathways: | Regulation of G-Protein Coupled Receptor Protein Signaling , Signaling Events mediated by VEGFR1 and VEGFR2 , Smooth Muscle Cell Migration , Integrin Complex |

Application Details

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| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. |
| Comment: | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

Handling

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| Reconstitution: | No reconstitution is necessary. |
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Do not freeze. Avoid prolonged exposure to light. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze. |

Product cited in:

Barrett, Dai, Gamberg, Gallant, Grant: "Circulating CD14-CD36+ peripheral blood mononuclear cells constitutively produce interleukin-10." in: **Journal of leukocyte biology**, Vol. 82, Issue 1, pp. 152-60, (2007) ([PubMed](#)).

Williams, Mondal, Agrawal: "The HIV-1 Tat protein enhances megakaryocytic commitment of K562 cells by facilitating CREB transcription factor coactivation by CBP." in: **Experimental biology and medicine (Maywood, N.J.)**, Vol. 230, Issue 11, pp. 872-84, (2005) ([PubMed](#)).

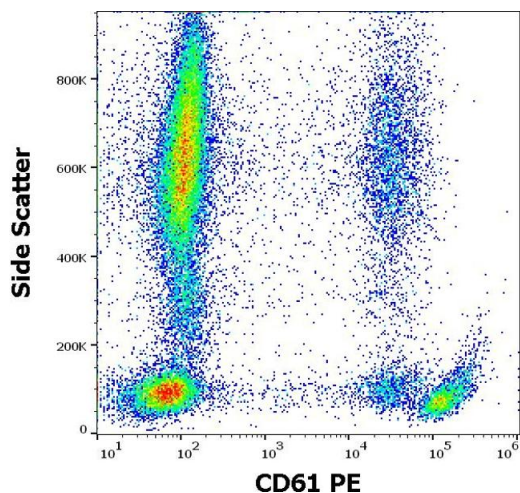
Mondal, Williams, Ali, Eilers, Agrawal: "The HIV-1 Tat protein selectively enhances CXCR4 and inhibits CCR5 expression in megakaryocytic K562 cells." in: **Experimental biology and medicine (Maywood, N.J.)**, Vol. 230, Issue 9, pp. 631-44, (2005) ([PubMed](#)).

Roberts, Woods, Dale, Van Der Sluijs, Norman: "Protein kinase B/Akt acts via glycogen synthase kinase 3 to regulate recycling of alpha v beta 3 and alpha 5 beta 1 integrins." in: **Molecular and cellular biology**, Vol. 24, Issue 4, pp. 1505-15, (2004) ([PubMed](#)).

Ciarlet, Crawford, Cheng, Blutt, Rice, Bergelson, Estes: "VLA-2 (alpha2beta1) integrin promotes rotavirus entry into cells but is not necessary for rotavirus attachment." in: **Journal of virology**, Vol. 76, Issue 3, pp. 1109-23, (2002) ([PubMed](#)).

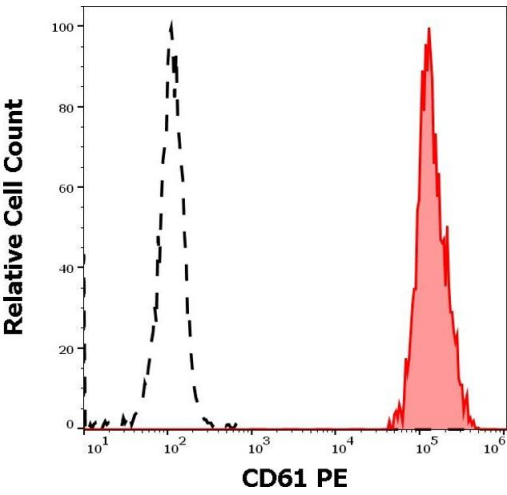
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD61 (VIPL2) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Separation of human thrombocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD61 (VIPL2) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).