Anti-Human CD49b-161Dy

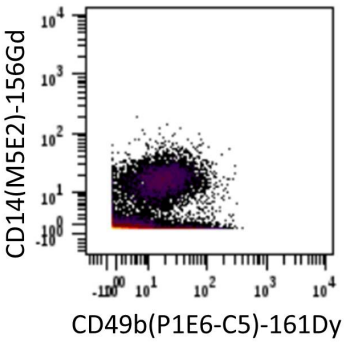
Catalog: 3161012B
Package Size: 100 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Human,

Clone: P1E6-C5
Isotype: IgG1
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human whole blood stained with 161Dy-anti-CD49b(P1E6-C5) and 156Gd-anti-CD14(M5E2). Total viable cells are displayed in the analysis.

Description

The P1E6-C5 monoclonal antibody specifically binds to CD49b, also known as integrin α2 chain, VLA-α2, and GP1a. CD49b is a 170kD type I transmembrane glycoprotein and belongs to the integrin family of extracellular matrix and cell-cell adhesion receptors. CD49b is expressed across a range of cell types in the blood including platelets, activated T cells, B cells, and monocytes. CD49b is reportedly associated with neonatal alloimmune thrombocytopenia. CD49b deficiencies have been associated with hemorrhagic disorders. CD49b forms the VLA-2 complex (integrin α 2/ β 1) through a noncovalent bond with CD29. Collagen and laminin act as ligands for the VLA-2 complex. The VLA-2 complex has been reported to regulate responses mediated by proinflammatory effector cells.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** J Immunol Methods 361 (1-2):1-20, 2010.

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