

Anti-Human CD49c-161Dy

Catalog: 3161016B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human,

Clone: ASC-1

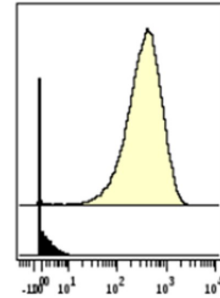
Isotype: IgG1

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 μ l for up to 3×10^6 live cells in 100 μ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



CD49c(ASC-1)-161Dy

Human HT29 cells (top) and human MOLT-4 cells (bottom) stained with 161Dy-anti-CD49c(ASC-1). Total viable cells are displayed in the analysis

Description

The monoclonal antibody ASC-1 reacts specifically with human CD49c, also known as Integrin alpha 3 or VLA-3 α chain. It is a type I transmembrane glycoprotein which is proteolytically cleaved into two disulfide linked fragments weighing 125 kD and 30 kD. Integrins comprise a family of cell surface receptors that regulate adhesion between cells or between the extracellular matrix and a cell. Integrins are expressed on both hematopoietic and non-hematopoietic cells and there are also reports of their expression on cancer cells. Integrin-mediated adhesion can be regulated by a number of processes including changes in ligand affinity, cell shape, integrin clustering and integrin diffusion.

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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EMAIL
United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com
Asia techsupportasia@fluidigm.com | Latin America techsupportlatam@fluidigm.com
All other countries techsupport@fluidigm.com

PHONE
United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40
Japan +81 3 3662 2150 | China (excluding Hong Kong) +86 21 3255 8368
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