

Anti-Human Integrin-168Er

Catalog: 3168013B

Clone: Y9A2

Package Size: 100 tests

Isotype: IgG1

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

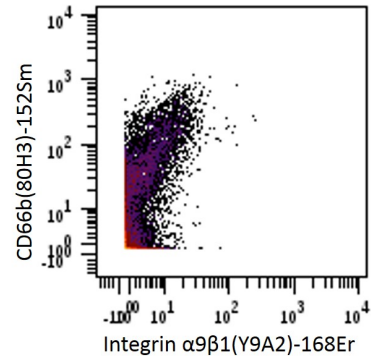
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human, Guinea Pig,

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.



Human whole blood stained with 168Er-anti-Integrin α 9 β 1(Y9A2) and 152Sm-anti-CD66b(80H3). Total viable cells are displayed in the analysis.

Description

The Y9A2 monoclonal antibody binds to human Integrin α 9 β 1, a transmembrane protein belonging to the integrin family. Multiple ligands bind to Integrin α 9 β 1, including the inducible endothelial counter-receptor, vascular cell adhesion molecule-1 (VCAM-1), the extracellular matrix proteins tenascin C and osteopontin, coagulation factor XIII, and von Willebrand factor. Integrin α 9 β 1 is expressed on a variety of cell types including airway epithelium, different types of muscle cells, and hepatocytes. In blood, integrin α 9 β 1 is highly expressed on human neutrophils and at low level on monocytes. Recent reports have found Integrin α 9 β 1 expression on hematopoietic stem and progenitor cells, where it is thought to mediate stem cells adhesion, proliferation, and differentiation.

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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