

Anti-Human CD42b-144Nd

Catalog: 3144020B

Package Size: 100 tests

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

Reactivity: Chimpanzee, Human,

Clone: HIP1

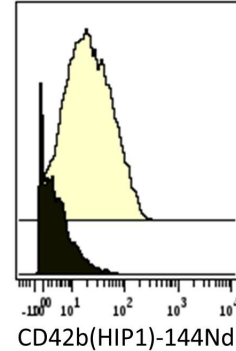
Isotype: IgG1

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 10⁶ 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 144Nd-anti-CD42b(HIP1). Total platelets (top) overlaying B lymphocytes (bottom) is displayed in the analysis.

Description

The HIP1 monoclonal antibody binds specifically to CD42b, a 145 kDa glycoprotein also known as gpIb α , which is encoded by the GP1BA gene. CD42b can be disulfide bonded to CD42c to form a 170 kDa heterodimer, GPIb. GPIb then forms a noncovalent complex with CD42a and CD42d, leading to the formation of the CD42 complex. The CD42 complex is expressed on platelets and megakaryocytes. The CD42 complex is involved in the adhesion of platelets to the subendothelium of damaged vascular walls as the von Willebrand Factor(vWF) surface receptor. HIP1 has also been reported to partially inhibit collagen-induced aggregation.

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
 All other countries +1 650 266 6100

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