

Anti-Human CD172b-149Sm

Catalog: 3149015B

Clone: B4B6

Package Size: 100 tests

Isotype: IgG1

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

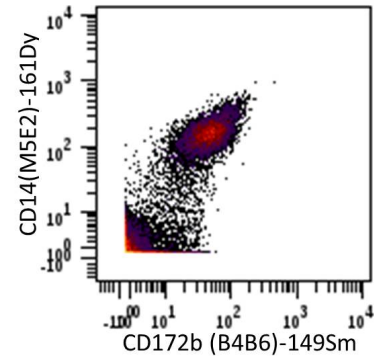
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human

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 PBMCs stained with 149Sm-anti-CD172b (B4B6) and 161Dy-anti-CD14 (M5E2). Total viable cells are displayed in the analysis.

Description

CD172b, also known as signal-regulatory protein β (SIRPβ), is a type I transmembrane protein belonging to the SIRP family within the Ig superfamily. It contains a single pass transmembrane region with immunoglobulin-like domains and unlike CD172a, this receptor lacks a cytoplasmic SHP-2 binding domain. CD172b is expressed on cells of monocyte, macrophage or dendritic lineages. CD172a and CD172b, based on the putative structures of their C-terminal intracellular domains which distinguish them as either activating (CD172b) or inhibitory (CD172a) isoforms, have complementary roles in signal regulation and may work together in tuning the response to a stimulus.

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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