

Anti-Mouse CD1d-162Dy

Catalog #: 3162020B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: 1B1

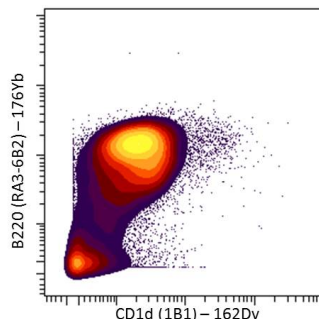
Isotype: Rat IgG2b

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.



Mouse splenocytes stained with 176Yb-anti-B220/CD45R (RA3-6B2) and 162Dy-anti-CD1d (1B1). Total viable CD3-CD11b- cells are displayed in the analysis.

Description

CD1d, also known as CD1.1 and Ly-38, is a 48 kDa type I membrane glycoprotein with structural homology to MHC Class I molecules, and is non-covalently associated with β2-microglobulin. Unlike MHC class I molecules that present peptide antigens, CD1d presents lipid antigens to a subpopulation of NK cells called natural killer T (NKT) cells. There are two types of NKT cells: Type I (invariant) NKT cells express an invariant T-cell receptor alpha chain, whereas Type II NKT cells have a diverse TCR repertoire.

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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