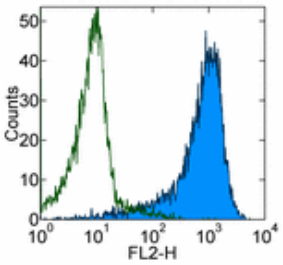
full spectrum cell analysis®
eBioscience®

Anti-Human CD1b Purified

Catalog Number: 14-0018
Also Known As:R1
RUO: For Research Use Only



Staining of Molt-4 cell line with 0.5 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.5 µg of Anti-Human CD1b Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD1b Purified
REF Catalog Number: 14-0018
Clone: eBioSN13 (SN13 K5-1B8)
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The eBioSN13 monoclonal antibody reacts with human CD1b. The CD1 molecules are similar to MHC class I, but rather than presenting peptide antigens to T-cell receptors (TCR), they present a diversity of lipid and glycolipid antigens which are derived from self as well as from mycobacteria which include sphingolipids, mycolic acid derivatives and phosphatidylinositols such as liparabinomannan (LAM) and glucose monomycolate (GMM). CD1b is 45 kDa, and like the other CD1 antigens, is expressed as a heterodimer composed of the CD1b noncovalently paired with β2-microglobulin.

Applications Reported

This eBioSN13 (SN13 K5-1B8) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections.

Applications Tested

This eBioSN13 (SN13 K5-1B8) antibody has been tested by flow cytometric analysis of SN13 cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Martin LH, Calabi F, Lefebvre FA, Bilsland CA, Milstein C. Structure and expression of the human thymocyte antigens CD1a, CD1b, and CD1c. Proc Natl Acad Sci U S A. 1987 Dec;84(24):9189-93.

Porcelli S, Morita CT, Brenner MB. CD1b restricts the response of human CD4-8- T lymphocytes to a microbial antigen. Nature. 1992 Dec 10;360 (6404):593-7.

Giuliani A, Prete SP, Graziani G, Aquino A, Balduzzi A, Sugita M, Brenner MB, Iona E, Fattorini L, Orefici G, Porcelli SA, Bonmassar E. Influence of Mycobacterium bovis bacillus Calmette Guérin on in vitro induction of CD1 molecules in human adherent mononuclear cells. Infect Immun. 2001 Dec;69(12):7461-70. (SN13, FC, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified