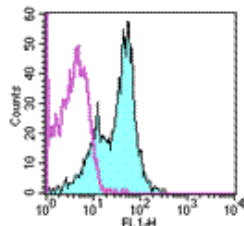


Anti-Mouse CD1d Purified

Catalog Number: 14-0011

Also Known As: CD1.1, Ly-38

RUO: For Research Use Only



Staining of BALB/c splenocytes with 1.0 μ g of Rat IgG2b Isotype Control Purified (cat.14-4031) (open histogram) or 1.0 μ g of Anti-Mouse CD1d Purified (filled histogram) followed by Anti-Rat IgG FITC (cat.11-4811). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD1d Purified

REF Catalog Number: 14-0011

Clone: 1B1

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2b, κ

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 1B1 monoclonal antibody reacts with mouse CD1d, a 48 kDa glycoprotein with structural homology to MHC class I molecules. While similar to MHC Class I, CD1d associates with β 2-m, functionally CD1d is similar to MHC Class II. 1B1 detects CD1d at varying levels on mouse leukocytes. 1B1 detects β 2-m associated CD1d.

Applications Reported

The 1B1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. 1B1 has also been reported in *in vivo* and *in vitro* studies. (Please use Functional Grade purified 1B1, cat. 16-0011, in functional assays.)

Applications Tested

The 1B1 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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

Brossay L, D.Jullien, S. Cardell, B.C. Sydora, N. Burdin, R.L. Modlin, and M. Kronenberg. 1997. Mouse CD1 is mainly expressed on hemopoietic derived cells. *J. Immunol.* 159: 1216-1224.

Amano M., N. Baumgarth, M.D. Dick, L. Brossay, M. Kronenberg, L.A. Herzenberg, and S Strober. 1998. CD1 expression defines subsets of follicular and marginal zone B cells in the spleen: β 2-microglobulin-dependent and independent forms. *J. Immunol.* 161:1710-1717.

Sydora B.C., L. Brossay, A. Hagenbaugh, M. Kronenberg, and H. Cheroutre. 1996. TAP-independent selection of CD8+ intestinal intraepithelial lymphocytes. *J. Immunol.* 156: 4209-4216.

Roark J.H., S.-H. Park, J. Jayawardena, U. Kavita, M. Shannon, and A. Bendelac. 1998. CD1.1 expression by mouse antigen-presenting cells and marginal zone B cells. *J. Immunol.* 160: 3121-3127.

Kawano, T. J. Cui, Y. Koezuka, I. Taura, Y. Kaneko, K. Motoki, H. Ueno, R. Nakagawa, H. Sato, E. Kondo, H. Koseki, and M. Taniguchi. 1997. CD1d-restricted and TCR-mediated activation of Valpha14 NKT cells by glycosylceramides. *Science* 278:1626-1629.

Brudin N., L. Brossay, Y. Koezuka, S. T. Smiley, M. J. Grusby, M. Gui, M. Taniguchi, K. Hayakawa, M. Kronenberg. 1998. Selective Ability of Mouse CD1 to Present Glycolipids: α -Galactosylceramide Specifically Stimulates Va14+ NK T Lymphocytes. *J. Immunol* 161: 271-81.

Szalay G, Ladel CH, Blum C, Brossay L, Kronenberg M, Kaufmann SH. Cutting edge: anti-CD1 monoclonal antibody treatment reverses the production patterns of TGF-beta 2 and Th1 cytokines and ameliorates listeriosis in mice. *J Immunol.* 1999 Jun 15;162(12):6955-8. (in vivo, PubMed)

Related Products

11-4317 Streptavidin FITC
11-4811 Anti-Rat IgG FITC
12-4317 Streptavidin PE
13-4813 Anti-Rat IgG Biotin (Polyclonal)
14-4031 Rat IgG2b K Isotype Control Purified
17-4317 Streptavidin APC

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