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Product Information

Contents: Functional Grade Purified anti-mouse CD1d (CD1.1, Ly-

38)

Catalog Number: 16-0011 Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,

150 mM NaCl, No NaN₃

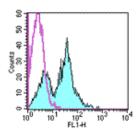
Storage Conditions: Store at 4°C. Avoid repeated freeze/thaw cycles.

KEEP CONTENT STERILE.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined

by the LAL assay. Clone: 1B1

Isotype: Rat IgG2b, κ



Staining of BALB/c splenocytes with 1.0 µg of FG purified rat IgG2b isotype control (cat.16-4331) (open histogram), or 1.0 µg of FG purified anti-mouse CD1d (1B1) (colored histogram) followed by FITC anti-rat IgG (cat. 11-4811). Total viable cells were used for analysis.

Available	Formats of This Product			
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0011	FITC anti-mouse CD1d (CD1.1, Ly-38)	488	518	FC
12-0011	PE anti-mouse CD1d (CD1.1, Ly-38)	488	575	FC
13-0011	Biotin anti-mouse CD1d (CD1.1, Ly-38)	N/A	N/A	FC
14-0011	Affinity Purified anti-mouse CD1d (CD1.1, Ly-38)	N/A	N/A	FA FC IHC IP
16-0011	Functional Grade* Purified anti-mouse CD1d (CD1.1, Ly-38)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg. Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. The 1B1 antibody has been reported for use in flow cytometric analysis. 1B1 has also been reported in $in\ vivo$ and $in\ vitro$ studies.

Applications Tested

The 1B1 antibody has been tested by flow cytometeric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 μ g per million cells in a 100 μ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0011	FITC anti-mouse CD1d (CD1.1, Ly-38) (clone 1B1)
Cat. 12-0011	PE anti-mouse CD1d (CD1.1, Ly-38) (clone 1B1)
Cat. 13-0011	Biotin anti-mouse CD1d (CD1.1, Ly-38) (clone 1B1)
Cat. 14-0011	Affinity Purified anti-mouse CD1d (CD1.1, Ly-38) (clone 1B1)
Cat. 16-4031	Functional Grade Purified Rat IgG2b Isotype Control (clone eB149/10H5)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)

Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)

Cat. 11-4811 FITC Anti-Rat IgG

Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

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.

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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.

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