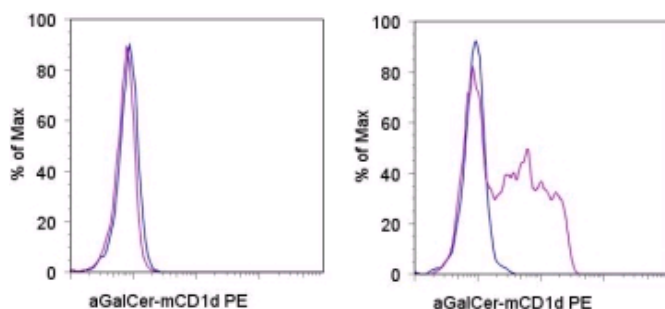


Anti-Mouse alpha GalCer:CD1d Complex PE

Catalog Number: 12-2019

Also Known As: alpha GalCer-CD1d complex, alphaGalCerCD1d complex, alpha galcer-CD1d complex, alpha-galactosylceramide, alpha galactosylceramide, CD1d

RUO: For Research Use Only



Staining of mouse CD1d-transfected cells loaded overnight with α -galactosylceramide (right) or left untreated (left) with 0.25 μ g of Mouse IgG2a κ Isotype Control PE (cat. 12-4724) (blue histogram) or 0.125 μ g of Anti-Mouse α -GalCer:CD1d Complex PE (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse alpha GalCer:CD1d Complex PE


REF Catalog Number: 12-2019

Clone: L363


Concentration: 0.2 mg/ml

Host/Isotype: Mouse IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

This L363 monoclonal antibody reacts with α -galactosylceramide bound to the mouse MHC class I-like protein CD1d. This complex is recognized by invariant natural killer T (iNKT) cells, a subset of T lymphocytes that expresses the invariant TCR α chain V α 14J α 18. Activation of iNKT cells leads to production of Th1 and Th2-associated cytokines as well as dendritic cell maturation.

The L363 antibody has been reported to neutralize iNKT cell activation by α -galactosylceramide:CD1d complexes.

Applications Reported

This L363 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This L363 antibody has been tested by flow cytometric analysis of alpha-galactosylceramide-loaded mouse CD1d-transfected cells. This can be used at less than or equal to 0.25 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

Im JS, Arora P, Bricard G, Molano A, Venkataswamy MM, Baine I, Jerud ES, Goldberg MF, Baena A, Yu KO, Ndonye RM, Howell AR, Yuan W, Cresswell P, Chang YT, Illarionov PA, Besra GS, Porcelli SA. Kinetics and cellular site of glycolipid loading control the outcome of natural killer T cell activation. *Immunity*. 2009 Jun 19;30(6):888-98. (L363, FC, Pubmed)

Yu KO, Im JS, Illarionov PA, Ndonye RM, Howell AR, Besra GS, Porcelli SA. Production and characterization of monoclonal antibodies against complexes of the NKT cell ligand alpha-galactosylceramide bound to mouse CD1d. *J Immunol Methods*. 2007 May 31;323(1):11-23. (L363, FA, Pubmed)

Related Products

11-0011 Anti-Mouse CD1d FITC (1B1)

12-4724 Mouse IgG2a K Isotype Control PE

