
Anti-Mouse alpha GalCer:CD1d Complex Functional Grade Purified

Catalog Number: 16-2019

Also Known As: alpha GalCer-CD1d complex

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse alpha GalCer:CD1d Complex
Functional Grade Purified

REF **Catalog Number:** 16-2019

Clone: L363

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG2a, kappa


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

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 functional assays.

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

16-4724 Mouse IgG2a K Isotype Control Functional Grade Purified

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