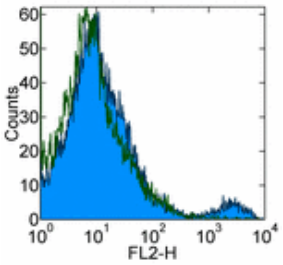
full spectrum cell analysis®
eBioscience®

Anti-Mouse Ly-49A/D Purified

Catalog Number: 14-5783
Also Known As:Ly49A, Ly49D
RUO: For Research Use Only



Staining of 3-day Mouse IL-2 Recobinant Protein (cat. 14-8021)-stimulated mouse splenocytes with 0.25 µg of Rat IgG2a κ Isotype Control Purified (cat. 14-4321) (open histogram) or 0.25 µg of Anti-Mouse Ly-49A/D Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Ly-49A/D Purified
REF Catalog Number: 14-5783
Clone: eBio12A8 (12A8)
Concentration: 0.5 mg/ml
Host/Isotype: Rat IgG2a, 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 eBio12A8 antibody reacts with Ly-49A and Ly-49D. The Ly-49 family of NK-cell receptors, members of the C-type lectin superfamily, are disulfide-linked type-II transmembrane protein homodimers with extracellular carbohydrate-recognition domains which bind to MHC class I alloantigens. The Ly-49 family members are expressed independently, such that an individual NK or T cell may display more than one class of Ly-49 receptor homodimers. Ly-49D is expressed on subsets of natural killer cells in C57BL/6, C3H/He, and SJL mice, but not DBA/2, AKR, CBA/J, or BALB/c mice. The Ly-49D antigen has not been detected on NK-1.1+ T cells. The Ly-49D receptor has been implicated in mediation of NK cell cytolysis. Ly-49D is an activating receptor while Ly-49A is a inhibitory receptor.

eBio12A8 does not react with BALB/c, DBA/2, AKR, or CBA/J Ly-D49D.

Applications Reported

This eBio12A8 (12A8) antibody has been reported for use in flow cytometric analysis, and immunoprecipitation.

Applications Tested

This eBio12A8 (12A8) antibody has been tested by flow cytometric analysis of cultured mouse splenocytes. This can be used at less than or equal to 0.5 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.

Direct conjugates are recommended for flow cytometric analysis.

References

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Ortaldo, J.R., et al. 1998. The Ly-49 family: regulation of cytotoxicity and cytokine production in murine CD3+ cells. J. Immunol. 160: 1158 - 1165.

Takei, F., et al. 1997. The Ly-49 family: genes, proteins and recognition of class I MHC. Immunol. Rev. 155: 67 – 77.

Ortaldo, J.R., et al. 1999. Ly-49 receptor expression and functional analysis in multiple mouse strains. J. Leukoc. Biol. 66: 512 - 520.

Nakamura MC, Hayashi S, Niemi EC, Ryan JC, Seaman WE. Activating Ly-49D and inhibitory Ly-49A natural killer cell receptors demonstrate distinct requirements for interaction with H2-D(d). J Exp Med. 2000 Aug 7;192(3):447-54. (PubMed)

Related Products
11-4317 Streptavidin FITC
11-4811 Anti-Rat IgG FITC
12-4317 Streptavidin PE
13-4813 Anti-Rat IgG Biotin (Polyclonal)
14-4321 Rat IgG2a K Isotype Control Purified
17-4317 Streptavidin APC

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