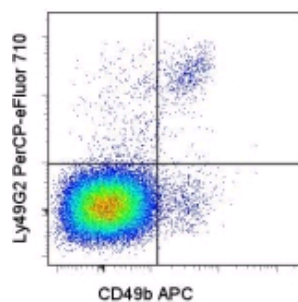


Anti-Mouse Ly-49G2 PerCP-eFluor® 710

Catalog Number: 46-5781

Also Known As: LGL-1, Ly49G2

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with Anti-Mouse CD49b (Integrin α 2) APC (cat. 17-5971) and 0.06 μ g of Anti-Mouse Ly-49G2 PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse Ly-49G2 PerCP-eFluor® 710


REF Catalog Number: 46-5781

Clone: eBio4D11 (4D11)


Concentration: 0.2 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. Do not freeze. Light sensitive material.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The 4D11 monoclonal antibody reacts with Ly-49G2 (also known as LGL-1). 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. Ly-49G2 is an inhibitory receptor expressed on subsets of natural killer (NK) cells, NK-T cells (in all strains tested), and on a population of memory CD8+ T cells (in C57BL/6 mice). The 4D11 antibody has been reported to cross react with the Ly-49AB6, Ly-49ABALB, and Ly-49T129/J inhibitory receptors and Ly-49LCBA/J activating receptors. The proportion of NK-T cells expressing Ly-49A and Ly-49G2 is higher in the thymus than in liver, and there is evidence that down-regulation of Ly-49 receptor expression is necessary for normal NK-T-cell development to occur.

Applications Reported

This eBio4D11 (4D11) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio4D11 (4D11) antibody has been tested by flow cytometric analysis of mouse spleen cells. This can be used at less than or equal to 0.125 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor® Organic Dyes including PerCP-eFluor® 710.

References

Mason, L.H., et al. 1995. Cloning and functional characteristics of murine large granular lymphocyte-1: a member of the Ly-49 gene family (Ly-49G2). *J. Exp. Med.* 182: 293 – 303.

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.

Mason, L., et al. 1988. LGL-1: a non-polymorphic antigen expressed on a major population of mouse natural killer cells. J. Immunol. 140: 4403 - 4412.

Related Products

12-5971 Anti-Mouse CD49b (Integrin alpha 2) PE (DX5)

17-5971 Anti-Mouse CD49b (Integrin alpha 2) APC (DX5)

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (PE-Cy5.5 replacement)

51-5782 Anti-Mouse Ly-49D Alexa Fluor® 647 (eBio4E5 (4E5))

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