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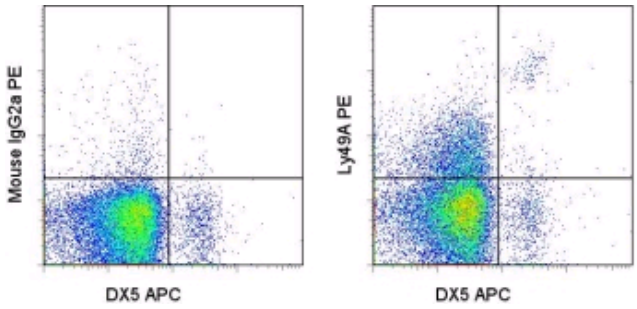
Anti-Mouse Ly-49A PE

Catalog Number: 12-5856
Also Known As:Ly49A
RUO: For Research Use Only



Staining of CD3$^-$ (cat. 11-0031) C57BL/6 splenocytes with Anti-Mouse CD49b (Integrin α2) APC (cat. 17-5971) and 0.125 µg of Mouse IgG2a κ Isotype Control PE (cat. 12-4724) (left) or 0.25 µg of Anti-Mouse Ly-49A PE (right).

Product Information

Contents: Anti-Mouse Ly-49A PE
REF Catalog Number: 12-5856
Clone: A1 (Ly49A)
Concentration: 0.2 mg/ml
Host/Isotype: Mouse IgG2a

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

This A1 monoclonal antibody reacts with Ly49A, a 44-kDa member of the Ly49 family of type II transmembrane receptors expressed on natural killer (NK) cells. This receptor is present as a disulfide-linked homodimer with C-type lectin extracellular domains. An inhibitory receptor, Ly49A binds MHC class I molecules, such as H-2Dd, H-2Dk, and H-2DP, to inhibit NK-mediated cytotoxicity by triggering phosphorylation of its ITIM domain and recruitment of SHP-1 and SHP-2. Ly49A is expressed on DX5+CD3- NK cells and DX5+CD3+ NK T cells, as well as on a population of memory CD8+ T cells in C57BL/6, C57BL/10, and B10 congenic mice.

Applications Reported

This A1 (Ly49A) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This A1 (Ly49A) antibody has been tested by flow cytometric analysis on C57BL/6 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.

References

Ortaldo JR, Winkler-Pickett R, Mason AT, Mason LH. The Ly-49 family: regulation of cytotoxicity and cytokine production in murine CD3+ cells. J Immunol. 1998 Feb 1;160(3):1158-65. (A1, FC, Pubmed)

Mason LH, Gosselin P, Anderson SK, Fogler WE, Ortaldo JR, McVicar DW. Differential tyrosine phosphorylation of inhibitory versus activating Ly-49 receptor proteins and their recruitment of SHP-1 phosphatase. J Immunol. 1997 Nov 1;159(9):4187-96.

Related Products

11-0031 Anti-Mouse CD3e FITC (145-2C11)
12-4724 Mouse IgG2a K Isotype Control PE
17-5971 Anti-Mouse CD49b (Integrin alpha 2) APC (DX5)

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