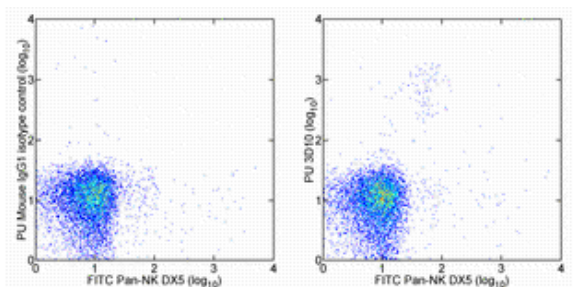


Anti-Mouse Ly-49H Purified

Catalog Number: 14-5886

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



Staining of C57BL/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) FITC (cat. 11-5971) and 0.125 ug of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (left) or 0.125 ug of Anti-Mouse Ly-49H Purified (right) followed by Anti-Mouse IgG Biotin and Streptavidin APC (cat. 17-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse Ly-49H Purified

REF **Catalog Number:** 14-5886

Clone: 3D10

Concentration: 0.5 mg/mL

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



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Contains sodium azide

Description

The monoclonal antibody 3D10 recognizes Ly-49H, a member of the C-type lectin Ly-49 multigene family of receptors found on natural killer cells. Ly-49H, like Ly-49D, lacks the characteristic ITIM (immunoreceptor tyrosine-based inhibitory motif) and contains an arginine in the transmembrane domain implying these molecules act as activation receptors. Ly-49H is expressed in a subset of NK cells but not NKT (NK1.1CD3+) cells. Natural killer cells can express several Ly-49 proteins. It has been shown that there is preferential staining of Ly-49H with Ly-49D (cat 12-5783). Expression has been confirmed on C57BL/6 and NWN but not Balb/c or DBA/2 mice. Other mice strains have not been tested. No crossreactivity to Ly-49A, C, D or G2 has been observed. Addition of monoclonal antibody 3D10 to cell cultures induces lysis of target cells.

Applications Reported

This 3D10 antibody has been reported for use in flow cytometric analysis, and immunoprecipitation.

Applications Tested

This 3D10 antibody has been tested by flow cytometric analysis of C57BL/6 mouse splenocytes. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Caraux A, Kim N, Bell SE, Zompi S, Ranson T, Lesjean-Pottier S, Garcia-Ojeda ME, Turner M, Colucci F. Phospholipase C-gamma2 is essential for NK cell cytotoxicity and innate immunity to malignant and virally infected cells. *Blood*. 2006 Feb 1;107(3):994-1002. (3D10, FC PubMed)

Brown MG, Dokun AO, Heusel JW, Smith HR, Beckman DL, Blattenberger EA, Dubbelde CE, Stone LR, Scalzo AA, Yokoyama WM. Vital involvement of a natural killer cell activation receptor in resistance to viral infection. *Science*. 2001 May 4;292(5518):934-7. (3D10, FA PubMed)

Smith HR, Chuang HH, Wang LL, Salcedo M, Heusel JW, Yokoyama WM. Nonstochastic coexpression of activation receptors on murine natural killer cells. *J Exp Med*. 2000 Apr 17;191(8):1341-54. (3D10, FC, IP, FA, PubMed)

Related Products

11-5971 Anti-Mouse CD49b (Integrin alpha 2) FITC (DX5)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

17-4317 Streptavidin APC

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com