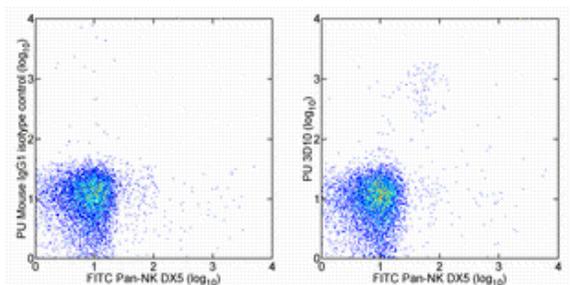


## Anti-Mouse Ly-49H Purified

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  $\mu$ g of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (left) or 0.125  $\mu$ g 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 NWNNA 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  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ 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

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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