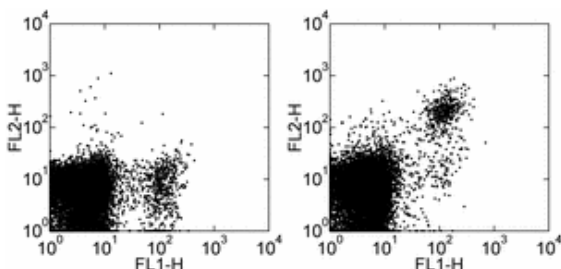


## Anti-Mouse CD49b (Integrin alpha 2) Purified

Catalog Number: 14-5971

Also Known As: integrin alpha 2, ITGA2, DX5, pan-NK

RUO: For Research Use Only



Staining of C57Bl/6 splenocytes with FITC anti-mouse NK-1.1 (cat. 11-5941) and 0.25 µg of Rat IgM, K Isotype Control Purified (cat. 14-4341) (left) or 0.25 µg of Anti-Mouse CD49b Purified (right) followed by Anti-Rat IgM PE (cat. 12-0990). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) Purified


**REF** Catalog Number: 14-5971

Clone: DX5

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgM, 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 DX5 monoclonal antibody reacts with CD49b, an antigen expressed on a majority of mouse natural killer cells and a subset of T cells. DX5 reacts with all strains of mouse tested including the most commonly used strains, BALB/c, C57BL/6, C3H, CBA, DBA, AKR, SJL and 129.

Simultaneous staining of C57BL/6 spleen cells with anti-NK1.1 mAb (PK136) and DX5 reveals coexpression of both markers by a majority of cells as well as presence of small populations of DX5<sup>+</sup>PK136<sup>-</sup> and DX5<sup>-</sup>PK136<sup>+</sup> cells.

### Applications Reported

The DX5 antibody has been reported for use in flow cytometric analysis. This antibody does not block adhesion and function of NK cells, and is not useful for immunoprecipitation and immunohistochemical staining of mouse tissues.

### Applications Tested

The DX5 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Hussell, T. and P. J. Openshaw (1998). "Intracellular IFN-gamma expression in natural killer cells precedes lung CD8+ T cell recruitment during respiratory syncytial virus infection." *J Gen Virol* 79(Pt 11): 2593-601.

Vos, Q., J. R. Ortaldo, et al. (1998). "Phenotypic and functional characterization of a panel of cytotoxic murine NK cell clones that are heterogeneous in their enhancement of Ig secretion in vitro." *Int Immunol* 10(8): 1093-101.

Arase, H., T. Saito, et al. (2001). Cutting edge: the mouse NK cell-associated antigen recognized by DX5 monoclonal antibody is CD49b (alpha(2) integrin, very late antigen-2). *J Immunol* 167(3): 1141-4.

### Related Products

11-0990 Anti-Rat IgM FITC (HIS40)

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

14-4341 Rat IgM Isotype Control Purified

17-4317 Streptavidin APC

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