

Product Information

Contents: Fluorescein isothiocyanate (FITC) anti-mouse pan-NK cells (CD49b, α_2 integrin, very late antigen-2)

Catalog Number: 11-5971

Sizes: 10 μ g, 50 μ g, 100 μ g, 500 μ g

Formulation: Phosphate buffer pH 7.2, 500 mM NaCl, 0.09% NaN₃

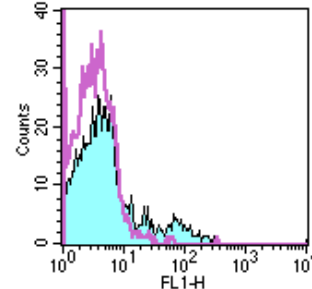
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: DX5

Isotype: Rat IgM, κ



Staining of C57BL/6 splenocytes with 0.25 μ g of FITC rat IgM isotype control (cat. 11-4341) (open histogram) or 0.25 μ g of FITC DX5 (colored histogram). Total viable cells were used for analysis.

| Available Formats of This Product | | | | |
|-----------------------------------|---|-------------|-----------|-----------------------|
| Cat. No. | Format | Excite (nm) | Emit (nm) | Reported Applications |
| 11-5971 | FITC anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | 488 | 518 | FC |
| 12-5971 | PE anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | 488 | 575 | FC |
| 13-5971 | Biotin anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | N/A | N/A | FC |
| 14-5971 | Affinity Purified anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | N/A | N/A | FC |
| 17-5971 | APC anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | 633 | 660 | FC |
| 25-5971 | Phycoerythrin-Cy7 (PE-Cy7) anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) | 488 | 760 | FC |

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⁺PK136⁻ and DX5⁻PK136⁺ cells.

Usage

For research use only, not for diagnostic or therapeutic use. The DX5 antibody has been reported for use in flow cytometric analysis.

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 μ g per million cells in a 100 μ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 11-4341 FITC Rat IgM Isotype Control
- Cat. 12-5971 PE anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) (clone DX5)
- Cat. 13-5971 Biotin anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) (clone DX5)

- Cat. 14-5971 Affinity Purified anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) (clone DX5)
Cat. 17-5971 APC anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) (clone DX5)
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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.

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