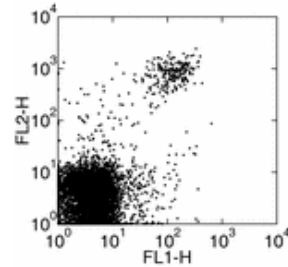


Product Information

Contents: Affinity Purified anti-mouse pan-NK cells (CD49b, α_2 integrin, very late antigen-2)
Catalog Number: 14-5971
Sizes: 50 ug, 100 ug, 500 ug
Formulation: Phosphate buffer pH 7.2, 500 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: DX5
Isotype: Rat IgM, κ



Two-color surface staining of C57BL/6 mouse splenocytes with anti-mouse pan-NK cells (DX5) FITC and anti-mouse NK-1.1 cells (PK136) FITC. 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. 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 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. 11-0990 FITC anti-rat IgM (clone HIS40)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 14-4341 Affinity Purified Rat IgM Isotype Control
- Cat. 11-5971 FITC anti-mouse pan-NK cells (CD49b, alpha 2 integrin, very late antigen-2) (clone DX5)

- 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. 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.