

## Product Information

Contents: Phycoerythrin (PE) anti-mouse pan-NK cells (CD49b,  $\alpha_2$  integrin, very late antigen-2)

Catalog Number: 12-5971

Sizes: 10  $\mu$ g, 50  $\mu$ g, 100  $\mu$ g, 200  $\mu$ g

Formulation: Phosphate buffer pH 7.2,  
500 mM NaCl, 0.09% NaN<sub>3</sub>

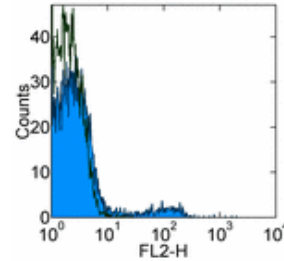
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: DX5

Isotype: Rat IgM,  $\kappa$



Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25  $\mu$ g of PE 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<sup>+</sup>PK136<sup>-</sup> and DX5<sup>-</sup>PK136<sup>+</sup> 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  $\mu$ g per million cells in a 100  $\mu$ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

- Cat. 12-4341 PE Rat IgM Isotype Control
- Cat. 11-5971 FITC 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)

## References

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- 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 (alpha2) integrin, very late antigen-2. *J Immunol* 167(3): 1141-4.

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