

## Product Information

Contents: Phycoerythrin (PE) anti-mouse NK cell (Ly-49C/I/F/H)

Catalog Number: 12-5991

Sizes: 10 ug, 50 ug, 100 ug, 200 ug

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

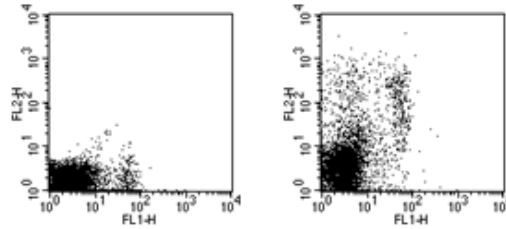
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 14B11

Isotype: Golden Syrian Hamster IgG



Staining of C57Bl/6 splenocytes with FITC anti-mouse CD49b/DX5 (cat. 11-5971) and staining buffer (autofluorescence) (left) or 0.125 µg of PE 14B11 (right). Total viable cells were used for analysis.

## Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-5991	FITC anti-mouse NK cell (Ly-49C/I/F/H)	488	518	FC
12-5991	PE anti-mouse NK cell (Ly-49C/I/F/H)	488	575	FC
13-5991	Biotin anti-mouse NK cell (Ly-49C/I/F/H)	N/A	N/A	FC
14-5991	Affinity Purified anti-mouse NK cell (Ly-49C/I/F/H)	N/A	N/A	FA FC

## Description

The 14B11 monoclonal antibody reacts with a subset of mouse Ly-49 receptors and recognizes a majority of mouse NK cells. This antibody reacts with 3 putative inhibitory members of the Ly-49 family, F, I, and C and one putative activating receptor, Ly-49H. 14B11 does not react with Ly-49A, B, D, or G. It is reported that 14B11 enhances the redirected lysis of FcR<sup>+</sup> target cells by IL-2-activated NK cells.

## Usage

For research use only, not for diagnostic or therapeutic use. The 14B11 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

The 14B11 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.125 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

- Cat. 12-4914 Phycoerythrin (PE) Golden Syrian Hamster IgG Isotype Control (clone n/a)
- Cat. 11-5991 FITC anti-mouse NK cell (Ly-49C/I/F/H) (clone 14B11)
- Cat. 13-5991 Biotin anti-mouse NK cell (Ly-49C/I/F/H) (clone 14B11)
- Cat. 14-5991 Affinity Purified anti-mouse NK cell (Ly-49C/I/F/H) (clone 14B11)

## References

Coles, M. C., C. W. McMahon, et al. (2000). "Memory CD8 T lymphocytes express inhibitory MHC-specific Ly49 receptors." *Eur J Immunol* 30(1): 236-44.

Corral, L., H. Takizawa, et al. (1999). "A new monoclonal antibody reactive with several Ly49 NK cell receptors mediates redirected

lysis of target cells." Hybridoma 18(4): 359-66.

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