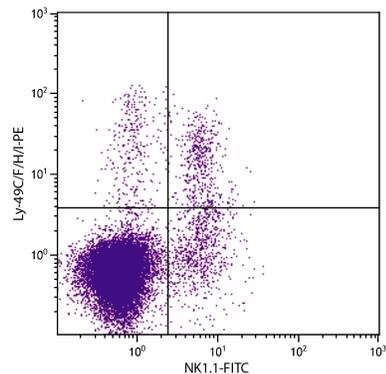




## Hamster Anti-Mouse Ly-49C/F/H/I

Cat. No.	Format	Size
1801-01	Purified (UNLB)	0.5 mg
1801-02	Fluorescein (FITC)	0.5 mg
1801-08	Biotin (BIOT)	0.5 mg
1801-09	R-phycoerythrin (PE)	0.1 mg



C57BL/6 mouse splenocytes were stained with Hamster Anti-Mouse Ly-49C/F/H/I-PE (SB Cat. No. 1801-09) and Mouse Anti-Mouse NK1.1-FITC (SB Cat. No. 1805-02).

### Overview

<b>Clone</b>	14B11
<b>Isotype</b>	Hamster (Syrian) IgG <sub>1</sub>
<b>Immunogen</b>	IL-2 activated natural killer (A-LAK) cells from C57BL/6 mice
<b>Specificity</b>	Mouse Ly-49C/G/H/I
<b>Alternate Name(s)</b>	Ly-49

### Description

The monoclonal antibody 14B11 reacts with murine Ly49C, Ly49F, Ly49H and Ly49I, members of the lectin-like homodimeric Ly49 family of cell surface receptors. Mouse Ly49 receptors exhibit allelic specificity for MHC class I Ia molecules and are thought to serve to prevent natural killer (NK) cells from attacking normal cells while allowing them to attack infected or transformed cells in which class I molecules have been downregulated. These inhibitory receptors are also expressed on a subpopulation of mouse CD8<sup>+</sup> T cells. The 14B11 antibody stains ~90% of NK1.1<sup>+</sup>CD3<sup>-</sup> splenocytes and ~6% of CD8<sup>+</sup> spleen cells from C57BL/6 mice. The antibody also stains 30-80% of NK1.1<sup>+</sup>CD3<sup>-</sup> splenocytes in other mouse strains tested (BALB/c, C3H, 129, SJL, AKR/J).

### Applications

FC – Quality tested <sup>1,2</sup>  
 Cyto – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC and BIOT conjugates	≤ 1 μg/10 <sup>6</sup> cells
	PE conjugate	≤ 0.2 μg/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific (M)SDS.

## References

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1. Corral L, Takizawa H, Hanke T, Jamieson AM, Raulet DH. A new monoclonal antibody reactive with several Ly49 NK cell receptors mediates redirected lysis of target cells. *Hybridoma*. 1999;18:359-66. (Immunogen, Cyto, FC)
2. Chung JW, Kim MS, Piao Z, Jeong M, Yoon SR, Shin N, et al. Osteopontin promotes the development of natural killer cells from hematopoietic stem cells. *Stem Cells*. 2008;26:2114-23. (FC)

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