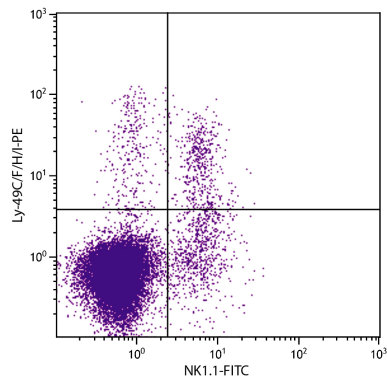




Hamster Anti-Mouse Ly-49C/F/H/I

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

Clone	14B11
Isotype	Hamster (Syrian) IgG ₁
Immunogen	IL-2 activated natural killer (A-LAK) cells from C57BL/6 mice
Specificity	Mouse Ly-49C/G/H/I
Alternate Name(s)	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⁺ T cells. The 14B11 antibody stains ~90% of NK1.1⁺CD3⁺ splenocytes and ~6% of CD8⁺ spleen cells from C57BL/6 mice. The antibody also stains 30-80% of NK1.1⁺CD3⁺ splenocytes in other mouse strains tested (BALB/c, C3H, 129, SJL, AKR/J).

Applications

FC – Quality tested ^{1,2}
Cyto – Reported in literature ¹

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	PE conjugate	≤ 0.2 µg/10 ⁶ 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

- 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/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ 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

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

References

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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