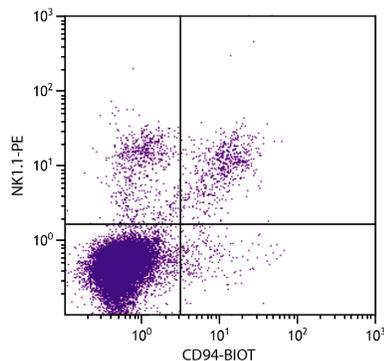




Rat Anti-Mouse CD94

Cat. No.	Format	Size
1809-01	Purified (UNLB)	0.5 mg
1809-02	Fluorescein (FITC)	0.5 mg
1809-08	Biotin (BIOT)	0.5 mg
1809-09	R-phycoerythrin (PE)	0.1 mg



C57BL/6 mouse splenocytes were stained with Rat Anti-Mouse CD94-BIOT (SB Cat. 1809-08) and Mouse Anti-Mouse NK1.1-PE (SB Cat. No. 1805-09) followed by Streptavidin-FITC (SB Cat. No. 7100-02).

Overview

Clone	18d3
Isotype	Rat (Lewis) IgG _{2a} k
Immunogen	CHO cells transfected with the B6 allele of CD94
Specificity	Mouse CD94
Alternate Name(s)	Kp43, KLRD1

Description

The monoclonal antibody 18d3 reacts with the mouse CD94 receptor subunit, a type II transmembrane glycoprotein. CD94 is expressed on the surface of NK cells, NK T cells, and some memory phenotype CD8⁺ cells. When CD94 is paired with NKG2A, C, or E subunit, it binds the nonclassical MHC class Ib molecule Qa-1^b and results in a CD94^{high} population by flow cytometry. Approximately half of NK cells do not express NKG2A, C or E; these cells express CD94 on the surface in a form that does not bind Qa-1^b and is believed to be nonfunctional, producing a CD94^{low} population by flow cytometry. CD94 is thought to play a role in the adhesion and activation of the NK cell lineage.

Applications

FC – Quality tested¹⁻³

Working Dilutions

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

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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 SDS.

References

1. Vance RE, Jamieson AM, Raulet DH. Recognition of the class Ib molecule Qa-1^b by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. *J Exp Med.* 1999;190:1801-12. (Immunogen, FC)
2. Beyersdorf NB, Ding X, Karp K, Hanke T. Expression of inhibitory "killer cell lectin-like receptor G1" identifies unique subpopulations of effector and memory CD8 T cells. *Eur J Immunol.* 2001;31:3443-52. (FC)
3. Vance RE, Jamieson AM, Cado D, Raulet DH. Implications of CD94 deficiency and monoallelic NKG2A expression for natural killer cell development and repertoire formation. *Proc Natl Acad Sci USA.* 2002;99:868-73. (FC)

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