



## CELL LAB Rat Anti-Mouse CD94

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732303	Purified (UNLB) Antibody	0.5 mg
732304	Fluorescein (FITC) Conjugate	0.5 mg
732305	Biotin (BIOT) Conjugate	0.5 mg
732306	Phycoerythrin (PE) Conjugate	0.1 mg

### For Laboratory Use Only

#### DESCRIPTION

<b>Clone:</b>	18D3
<b>Isotype:</b>	Rat (Lewis) IgG2a $\kappa$
<b>Immunogen:</b>	CHO cells transfected with the B6 allele of CD94 <sup>1</sup>
<b>Specificity:</b>	Mouse CD94 receptor subunit, Mr 70 kDa

Monoclonal antibody 18D3 reacts with the mouse CD94 receptor subunit, a 70 kDa type II transmembrane glycoprotein. CD94 is expressed on the surface of NK cells, NK T cells and some memory phenotype CD8<sup>+</sup> cells. When CD94 is paired with NKG2A, C, or E subunit, it binds the nonclassical MHC class Ib molecule Qa-1<sup>b</sup> and results in a CD94<sup>high</sup> population by flow cytometry.<sup>1</sup> 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<sup>b</sup> and is believed to be nonfunctional, producing a CD94<sup>low</sup> population by flow cytometry.<sup>1</sup> CD94 is thought to play a role in the adhesion and activation of the NK cell lineage.

#### APPLICATIONS

- Flow cytometry<sup>1</sup>

#### CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

#### WORKING DILUTIONS

<b>Flow Cytometry:</b>	Purified antibody	≤1 μg/10 <sup>6</sup> cells
	FITC conjugate	≤1 μg/10 <sup>6</sup> cells
	BIOT conjugate	≤1 μg/10 <sup>6</sup> cells
	PE conjugate	≤0.2 μg/10 <sup>6</sup> cells

**Other Applications:** Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

#### HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>.

- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

### STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

### TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

### REFERENCES

1. Vance RE, Jamieson AM and Raulet DH. 1999. 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*, 190:1801-1812.



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