



## CELL LAB Rat Anti-Mouse CD16/32 (Fc $\gamma$ Receptor)

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732121	Purified (UNLB) Antibody	0.5 mg
732122	Fluorescein (FITC) Conjugate	0.5 mg
732123	Phycoerythrin (PE) Conjugate	0.1 mg

### For Laboratory Use Only

#### DESCRIPTION

**Clone:** 93  
**Isotype:** Rat IgG2b $\kappa$   
**Specificity:** Murine CD16/32 (CD16/Fc $\gamma$  II and CD32/Fc $\gamma$  III receptors)

The lymphocyte Fc $\gamma$  receptors recognize the Fc portion of IgG, presented either as immune complexes or as free Ab. The different classes of receptors are distinct because of varying size, tissue distribution and affinity for IgGs. The Fc type II receptor is expressed on a wide variety of cells including B cells, hematopoietic cells, monocyte/macrophages, neutrophils, platelets, Langerhans cells, eosinophils, basophils, trophoblasts, and endothelial cells of the placenta.<sup>1,2</sup> The Fc $\gamma$  type III receptors are higher affinity than the type II and are expressed on macrophages, NK cells and neutrophils. Both types of receptors can be expressed on the same cell and in varying ratios.<sup>1</sup> The receptors are constitutively expressed, although cytokines and lymphokines can modulate their expression.<sup>3</sup> Besides identifying Fc $\gamma$  R<sup>+</sup> cells, monoclonal antibodies (MAbs) to the Fc $\gamma$  II/III receptor have been used to block Fc receptor binding of IgG, Fc-mediated signal transduction and effector functions,<sup>3</sup> clearance of immune complexes, and to attenuate infection by organisms dependent on Fc $\gamma$ R for parasitic invasion.<sup>4</sup> MAb 93 recognizes a conformational epitope formed by Fc $\gamma$  II and Fc $\gamma$  III receptors.

#### APPLICATIONS

- Flow cytometry<sup>3,5,6</sup>
- Blocking of Fc $\gamma$  receptors

#### 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

**Flow Cytometry:** Fluorescein conjugate  $\leq 3 \mu\text{g}/10^6$  cells  
Phycoerythrin conjugate  $\leq 0.2 \mu\text{g}/10^6$  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 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

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