

AM08040RP-S**Monoclonal Antibody to CD16/CD32 - PE****Alternate names:**

CD16a, FCG3, FCGR3A, Fc gamma receptor IIB, Fc-gamma RIII, Fc-gamma RIII-alpha, Fc-gamma RIIIa, Fc-gamma-RIIB, FcR mouse Seroblock, FcRII, FcRIII, FcRIIIa, Fcgr2, IGFR3, IgG Fc receptor II beta, IgG Fc receptor III-2, Low affinity immunoglobulin gamma Fc region receptor II/III, Ly-17, Lymphocyte antigen 17

Quantity:

0.1 mg

Concentration:

0.1 mg/ml

Background:

The lymphocyte Fc-gamma Receptors recognize the Fc portion of IgG, presented either as immune complexes or as free antibody. 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. (Ref.1,2)

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. (Ref.1) The receptors are constitutively expressed, although cytokines and lymphokines can modulate their expression. (Ref.4) Besides identifying Fc-gammaR+ cells, monoclonal antibodies to the Fc-gamma III receptor have been used to block Fc receptor binding of IgG, Fc-mediated signal transduction and effector functions, clearance of immune complexes and to attenuate infection by organisms dependent on Fc-gamma R for parasitic invasion. (Ref.4-6)

Host / Isotype:

Rat / IgG2a

Clone:

93

Format:**State:** Liquid purified Ig fraction.**Buffer System:** PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.**Label:** PE – R-Phycoerythrin**Applications:****Flow Cytometry:** < / 0.2 µg/10e6 cells. (Ref.4,7,8)

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is specific to Murine CD16/32 (CD16/FcγII and CD32/FcγIII receptors). It recognizes a conformational epitope formed by Fc-gamma III and Fc-gamma II Receptors.

Species: Mouse.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Unkeless, J. C., et al. 1995. *Semin. Immunol.* 7:37.
2. Warmerdam, P.A., et al. 1992. *Immunobiol.* 185:175.
3. Huizinga, T. W., et al. 1989. *J. Immunol.* 142:2365.
4. Ho, A. S-Y., et al. 1995. *Mol. and Cell. Biol.* 15:5043.
5. John Kearney, personal communication.
6. Kurlander, R.J., D. M. Ellison and J. Hall. 1984. *J. Immunol.* 133:855.
7. Araujo-Jorge, T., et al. 1993. *Infection and Immunity* 61:4925.
8. Titus, J. A., et al. 1984. *J. Immunol.* 133:556.