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Product datasheet for AM08040RP-S

CD16/CD32 Rat Monoclonal Antibody [Clone ID: 93]

Product data:

Product Type:	Primary Antibodies
Clone Name:	93
Applications:	FC
Recommended Dilution:	**Flow Cytometry:** < / 0.2 µg/10e6 cells. (Ref.4,7,8)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific to Murine CD16/32 (CD16/FcgII and CD32/FcgIII receptors). It recognizes a conformational epitope formed by Fc-gammaII and Fc-gamma III Receptors.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
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.
Stability:	Shelf life: one year from despatch.

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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-gammaII/III receptor have been used to block Fc receptor binding of IgG, Fcmediated 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)

Synonyms:

IgG Fc receptor III-2, Fc-gamma RIII-alpha, Fc-gamma RIIIa, FcRIIIa, Fc-gamma RIII, FcRIII, CD16a, FcR mouse Seroblock, FCGR3A, FCG3, IGFR3, Fc gamma receptor IIB, Fc-gamma-RIIB, FcRII, Ly-17, Fcgr2