

## Product datasheet for **AM08040PU-N**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	93
Applications:	FC, FN
Recommended Dilution:	<b>Flow Cytometry:</b> < / 3 µg/10e6 cells. (Ref.4,7,8) <b>Functional Assay:</b> Blocking of Fc-gamma receptors (< / 3 µg/10e6 cells).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific to Murine CD16/32 (CD16/FcγII and CD32/FcγIII receptors). It recognizes a conformational epitope formed by Fc-gammall and Fc-gamma III Receptors.
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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, 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)

**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