OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM08040LE-N

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	93
Applications:	FC, FN
Recommended Dilution:	**Flow Cytometry.** (Ref.4,7,8) **Functional Assay:** Blocking of Fc-gamma Receptors.
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 no preservatives. State: Low Endotoxin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

View online »

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