

Product name:	CD16(Q32)Mouse Monoclonal Antibody
Cat number:	MABN08235
Conjugate:	Unconjugated
Size:	100µL
Clone:	Monoclonal
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG
Immunogen:	Synthetic Peptide of CD16
Reactivity:	Human
Applications:	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200
Molecular Weight:	45kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	PBS, pH 7.4, containing 0.5%BSA, 0.02% New type preservative N as Preservative and 50% Glycerol.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, function: Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis., miscellaneous: Encoded by one of two nearly identical genes: FCGR3A (Shown here) and FCGR3B which are expressed in a tissue-specific manner. The Phe-203 in III-A determines the transmembrane domains whereas the Ser-203 in III-B determines the GPI-anchoring., online information: FCGR3A mutation db, polymorphism: Isoform Val-157 shows a higher binding capacity of IgG1, IgG3 and IgG4 compared with isoform Phe-157. Alleles Leu-66 and Phe-157, and alleles His-66 / Arg-66 and Val-157 are in linkage disequilibrium., PTM: Glycosylated. Contains high mannose- and complex-type oligosaccharides., PTM: The soluble form is produced by a proteolytic cleavage., similarity: Contains 2 Ig-like C2-type (immunoglobulin-like) domains., subcellular location: Exists also as a soluble receptor., subunit: Exists as a hetero-oligomeric receptor complex with Fc epsilon receptor I gamma subunit and / or the CD3 zeta subunit. Interacts with INPP5D/SHIP1., tissue specificity: Expressed on natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts.,