

CD16 (PN0538) Nb-FC recombinant antibody

Catalog No :	YA0121
Reactivity :	Human
Applications :	ELISA
Target :	CD16
Gene Name :	FCGR3A CD16A FCG3 FCGR3 IGFR3
Protein Name :	Low affinity immunoglobulin gamma Fc region receptor III-A (IgG Fc receptor III-A) (CD16-II) (CD16a antigen) (Fc-gamma RIII-alpha) (Fc-gamma RIII) (Fc-gamma RIIIa) (FcRIII) (FcRIIIa) (FcgammaRIIIA) (F
Human Gene Id :	2214
Human Swiss Prot No :	P08637
Immunogen :	Purified recombinant Human CD16
Specificity :	This recombinant monoclonal antibody can detects endogenous levels of CD16 protein.
Formulation :	Phosphate-buffered solution
Source :	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
Dilution :	ELISA 1:5000-100000
Purification :	Recombinant Expression and Affinity purified
Concentration :	Please check the information on the tube
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Cell Pathway :	Natural killer cell mediated cytotoxicity;Fc gamma R-mediated phagocytosis;Systemic lupus erythematosus;

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. 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. 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 (imm

Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Secreted . Exists also as a soluble receptor. .

Expression : Expressed in natural killer cells (at protein level) (PubMed:2526846). Expressed in a subset of circulating monocytes (at protein level) (PubMed:2767158).

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