

**CD16 (PN0532) Nb-FC recombinant antibody**

<b>Catalog No :</b>	YA0116
<b>Reactivity :</b>	Human
<b>Applications :</b>	ELISA;FCM
<b>Target :</b>	CD16
<b>Gene Name :</b>	FCGR3A CD16A FCG3 FCGR3 IGFR3
<b>Protein Name :</b>	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
<b>Human Gene Id :</b>	2214
<b>Human Swiss Prot No :</b>	P08637
<b>Immunogen :</b>	Purified recombinant Human CD16
<b>Specificity :</b>	This recombinant monoclonal antibody can detects endogenous levels of CD16 protein.
<b>Formulation :</b>	Phosphate-buffered solution
<b>Source :</b>	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
<b>Dilution :</b>	ELISA 1:5000-100000 FCM 1-2µg/Test
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Concentration :</b>	Please check the information on the tube
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
<b>Cell Pathway :</b>	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,

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**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

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

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**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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## Products Images