

CD16 Polyclonal Antibody

Catalog No :	YT5925
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	CD16
Fields :	>>Phagosome;>>Osteoclast differentiation;>>Neutrophil extracellular trap formation;>>Natural killer cell mediated cytotoxicity;>>Fc gamma R-mediated phagocytosis;>>Leishmaniasis;>>Staphylococcus aureus infection;>>Tuberculosis;>>Systemic lupus erythematosus
Gene Name :	FCGR3A CD16A FCG3 FCGR3 IGFR3 FCGR3B CD16B FCG3 FCGR3 IGFR3
Protein Name :	Low affinity immunoglobulin gamma Fc region receptor III-A/B (CD16a/b antigen) (Fc-gamma RIII-alpha/beta) (Fc-gamma RIII) (Fc-gamma RIIIa) (FcRIII) (FcRIIIa) (FcR-10) (IgG Fc receptor III-2) (CD antig
Human Gene Id :	2214
Human Swiss Prot No :	P08637/O75015
Immunogen :	Synthetic peptide from human protein at AA range: 100-150
Specificity :	The antibody detects endogenous CD16
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Cell Pathway : Natural killer cell mediated cytotoxicity; Fc gamma R-mediated phagocytosis; Systemic lupus erythematosus;

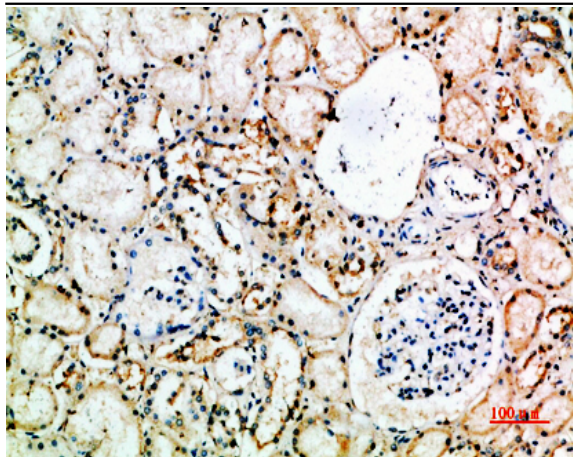
Background : This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 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 : 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-

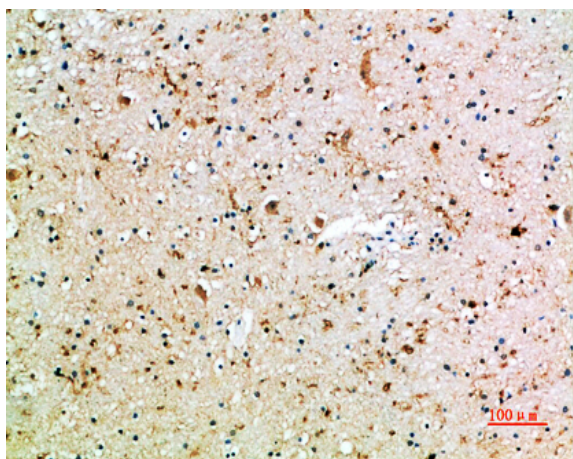
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Secreted . Exists also as a soluble receptor. .

Expression : Expressed in natural killer cells (at protein level) (PubMed:2526846). Expressed in a subset of circulating monocytes (at protein level) (PubMed:27670158).

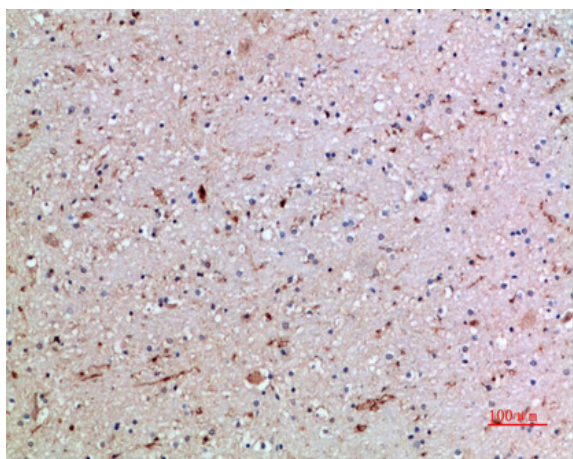
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Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200



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