Product Name: CD16 Rabbit Polyclonal Antibody
Catalog #: APRab08234

Summary

Production Name	CD16 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	FCGR3A CD16A FCG3 FCGR3 IGFR3 FCGR3B CD16B FCG3 FCGR3 IGFR3
Alternative Names	
Gene ID	2214.0
SwissProt ID	P08637/O75015.Synthetic peptide from human protein at AA range: 100-150

Application

Dilution Ratio	IHC-p 1:50-200, ELISA 1:10000-20000.
Molecular Weight	

Background

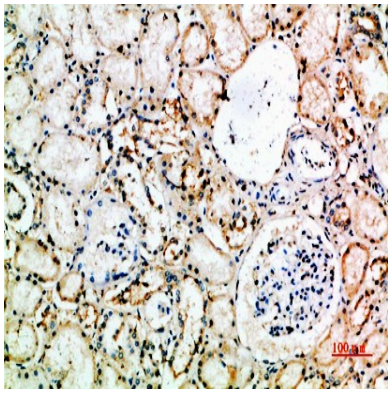
This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody

complexes from the circulation, as well as other 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 indentical 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 desequilibrium.,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.,

Research Area

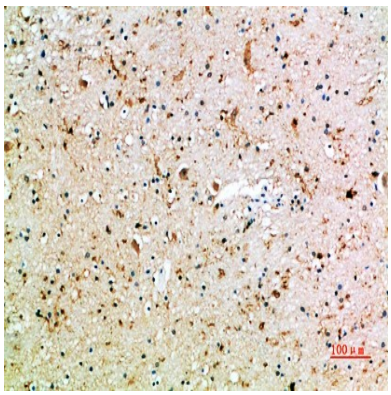
Natural killer cell mediated cytotoxicity;Fc gamma R-mediated phagocytosis;Systemic lupus erythematosus;

Image Data

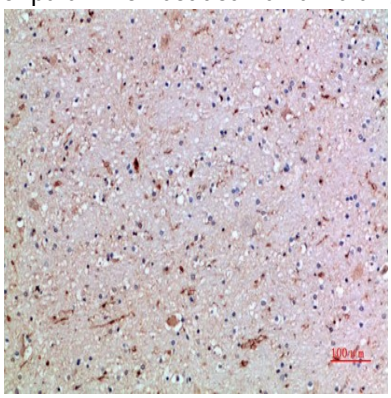


Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200

Product Name: CD16 Rabbit Polyclonal Antibody
Catalog #: APRab08234



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



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

Note

For research use only.