

Basic Information

Product Name	Anti-CD16/FCGR3A Antibody	
Gene Name	FCGR3A	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human CD16 recombinant protein (Position: Q101-D166). Human CD16 shares 50.9% and 56.5% amino acid (aa) sequence identity with mouse and rat CD16, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	45KD	
Dilution Ratios	Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

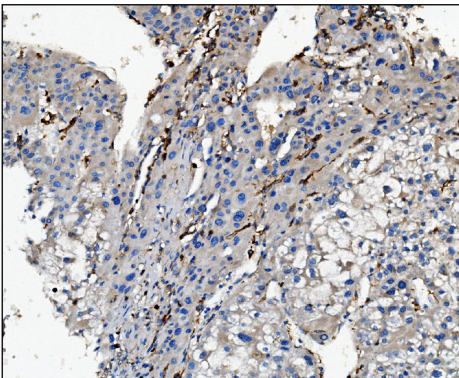
Low affinity immunoglobulin gamma Fc region receptor III-A is a protein that in humans is encoded by the FCGR3A gene. This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other antibody-dependent 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.

Reference

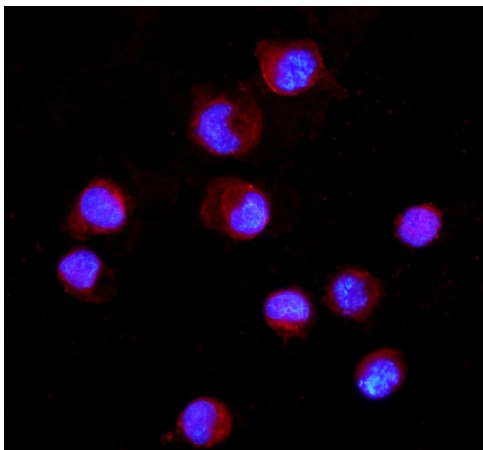
Anti-CD16/FCGR3A Antibody被引用在3文献中。

Selected Validation Data



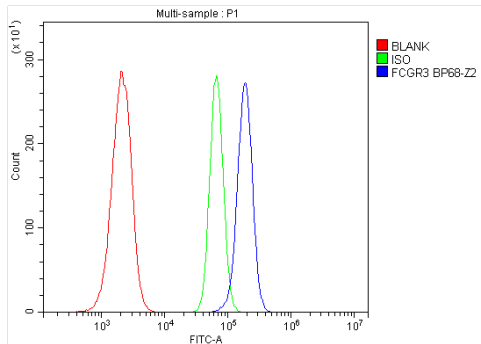
IHC analysis of CD16/FCGR3A using anti-CD16/FCGR3A antibody (A01408-1).

CD16/FCGR3A was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CD16/FCGR3A Antibody (A01408-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of CD16/FCGR3A using anti-CD16/FCGR3A antibody (A01408-1).

CD16/FCGR3A was detected in an immunocytochemical section of K562 cells. The section was incubated with rabbit anti-CD16/FCGR3A Antibody (A01408-1) at a dilution of 1:100. Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of HL-60 cells using anti-CD16/FCGR3A antibody (A01408-1).

Overlay histogram showing HL-60 cells stained with A01408-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD16/FCGR3A Antibody (A01408-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.