

Biotin Rabbit anti-Human CD16 mAb

Catalog No.: A26772

Basic Information

Observed MW

Calculated MW
29KDa/26KDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
ARC59985-Biotin

Conjugate
Biotin

Recommended Dilutions

FC 5 µl per 10⁶ cells in
100 µl volume

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 responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. 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 are associated with immunodeficiency 20, and 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.

Immunogen Information

Gene ID
2214/2215

Swiss Prot
P08637/O75015

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 20-208 of human FCGR3A/FCGR3B (P08637/O75015).

Synonyms

CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; CD16-II; FCGRIII; FCRIIIA; FcGRIIIA

Contact

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Product Information

Source
Rabbit

Isotype
IgG

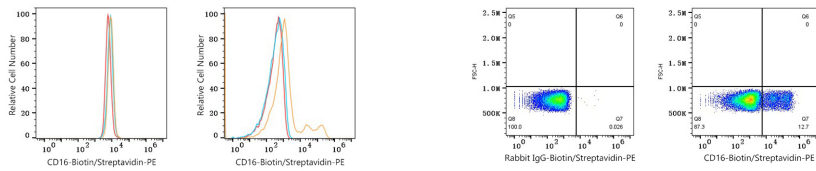
Purification
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 293F cells (negative control, left) and Human PBMC (right) were surface-stained with Biotin Rabbit anti-Human CD16 mAb (A26772, 5 μ l/Test, orange line) or Biotin Rabbit IgG isotype control (A25626, 5 μ l/Test, blue line), followed by PE Streptavidin staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 Human PBMC were surface-stained with Biotin Rabbit IgG isotype control (A25626, 5 μ l/Test, left) or Biotin Rabbit anti-Human CD16 mAb (A26772, 5 μ l/Test, right), followed by PE Streptavidin staining.