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ABflo® 488 Rabbit anti-Human/Monkey CD16 mAb

Catalog No.: A23399

Basic Information

Observed MW
Refer to figures

Calculated MW
29KDa/26KDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human, Cynomolgus

CloneNo number
ARC59985

Conjugate
ABflo® 488. Ex:491nm. Em:516nm.

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.

Recommended Dilutions

FC	5 µl per 10^6 cells in 100 µl volume

Immunogen Information

Gene ID
2214/2215

Swiss Prot
P08637/O75015

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; CD16-II; FCGRIII; FCRIIIA; FcGRIIIA; CD16b

Contact

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Product Information

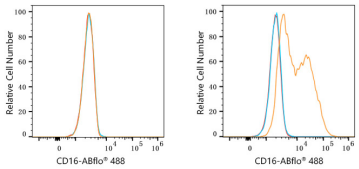
Source
Rabbit

Isotype
IgG

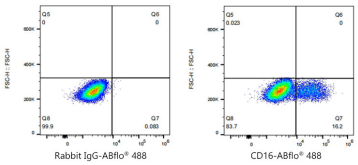
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

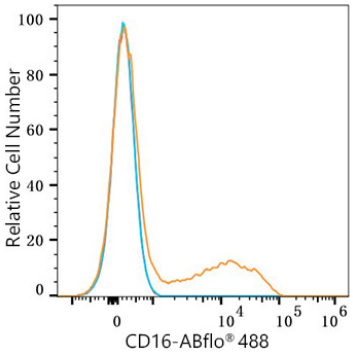
Validation Data



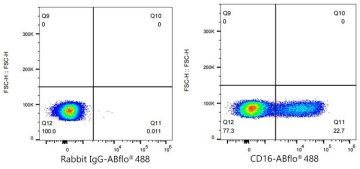
Flow cytometry:1X10^6 293F cells (negative control,left) and 293F-CD16b (Transfection,right) cells were surface-stained with ABflo® 488 Rabbit anti-Human CD16 mAb (A23399,5 µl/Test,orange line) or ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,blue line).Non-fluorescently stained cells was used as blank control (red line).



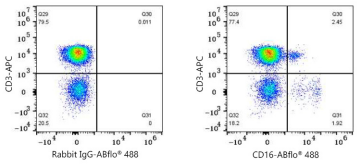
Flow cytometry:1X10^6 293F-CD16a (Transfection) cells were surface-stained with ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,left) or ABflo® 488 Rabbit anti-Human CD16 mAb (A23399,5 µl/Test,right).



Flow cytometry:1X10^6 Human PBMC were surface-stained with ABflo® 488 Rabbit anti-Human CD16 mAb(A23399,5 µl/Test,orange line) or ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry:1X10^6 Human PBMC were surface-stained with ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,left) or ABflo® 488 Rabbit anti-Human CD16 mAb(A23399,5 µl/Test,right).



Flow cytometry:1X10^6 Cynomolgus PBMC were surface-stained with APC Rabbit anti-Human/Monkey CD3 mAb (A27111,5 µl/Test) and ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,left) or ABflo® 488 Rabbit anti-Human/Monkey CD16 mAb(A23399,5 µl/Test,right). Cells in the lymphocyte gate were used for analysis.