Recombinant Human Fc-gamma RIII alpha/FCGR3A /CD16a Protein

Catalog No.: RP00066

Sequence Information

Species
Human

Gene ID
2214

Swiss Prot
P08637

Tags
C-His

Synonyms
CD16,CD16A,FCG3,FCGR3,FCGRIII, FCR-10,FCRIII,FCRIIIA,IGFR3, IMD20,FCGR3A, CD16, CD16A, FCG3, FCGR3, FCGRIII, FCR-10, FCRIII, FCRIIIA, IGFR3, IMD20, Fc fragment of IgG receptor IIIa

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
22.68 kDa

Observed MW
45-52 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is 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. The protein 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.

Basic Information

Description
Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gly17-Gln208) of human Fc gamma RIIIA/CD16a (Accession #NP_001121065.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human FCGR3A at 1 μg/mL (100 μL/well) can bind FCGR3A Mouse mAb with a linear range of 0.13-6.1 ng/mL.
2.Measured by its binding ability in a functional ELISA.Immobilized Human FCGR3A at 1 μg/mL (100 μL/well) can bind FCGR3A Mouse mAb with a linear range of 0.06-7.1 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

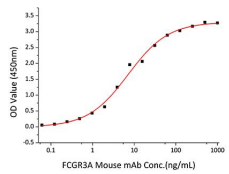
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

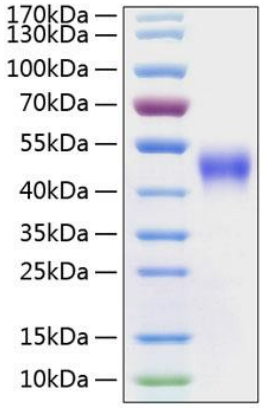
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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

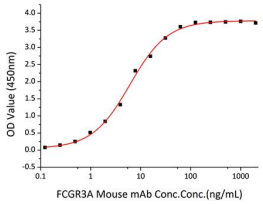
Validation Data



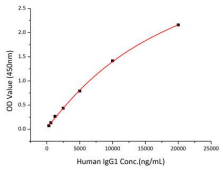
Immobilized Human FCGR3A at 1 μg/mL (100 μL/well) can bind FCGR3A Mouse mAb with a linear range of 0.06-7.1 ng/mL.



Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human FCGR3A at 1μg/mL (100 μL/well) can bind FCGR3A Mouse mAb with a linear range of 0.13-6.1ng/mL.



Immobilized Recombinant Human CD16A at 5 μg/mL (100 μL/well) can bind Recombinant IgG1 with a linear range of 10-40 μg/mL.