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

Catalog No.: RP01043

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Sequence Information

Species	Gene ID
Human	2214
Swiss Prot	**Tags**
P08637	C-hFc&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	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
48.62 kDa	70-80 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 cells expression system. The target protein is expressed with sequence (Gly17-Gln208) of human Fc gamma RIIIA/CD16a (Accession #NP_001121065.1) fused with an Fc, 6×His tag at the C-terminus.

Activity

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 0.13-7.9 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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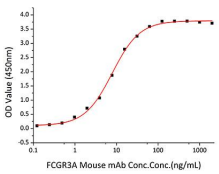
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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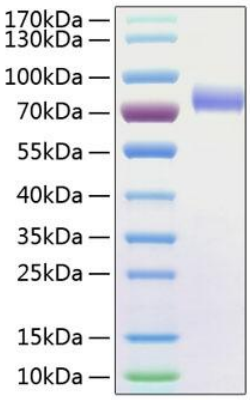

Recombinant Human Fc-gamma RIII alpha/FCGR3A /CD16a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.