

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

Catalog No.: RP01043 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 2214 P08637

**Tags** C-hFc&His

Synonyms

CD16;CD16A;FCG3;FCGR3;FCGRIII;FCR-1 0;FCRIII;FCRIIIA;IGFR3;IMD20;FCGR3A; CD16; CD16A; FCG3; FCGR3; FCGRIII; FCR-10; FCRIII; FCRIIIA; IGFR3; IMD20; Fc fragment of IgG receptor Illa

#### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

Calculated MW Observed MW 48.62 kDa 70-80 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$  of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22  $\mu m$  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.

#### **Contact**

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 cn.market@abclonal.com.cn

## **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,  $6\times His$  tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human FCGR3A at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well})$  can bind FCGR3A Mouse mAb with a linear range of 0.13-7.9 ng/mL.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

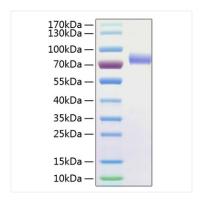
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

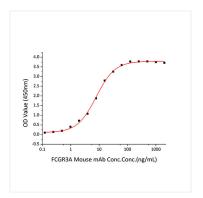
#### **Operational Notes**

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

## **Validation Data**



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



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