

RP00478

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# Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a (F176V) Protein

Catalog No.: RP00478 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2214	AAH17865

### Tags

C-His&Avi

### Synonyms

Fc gamma RIIIA; FCGR3; FCGR3A;  
FCGRIII; FcgRIIIA; FcR-10; CD16A;  
FCG3; IGFR3; FcRIIIa; FcRIII; CD16;  
IMD20

## Product Information

### Source

<I>E. coli</I>

### Purification

≥ 95 % as  
determined by  
SDS-PAGE; ≥ 95 %  
as determined by  
HPLC.

### Endotoxin

< 1 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from 0.22 μm filtered  
solution in PBS (pH 7.4). Normally 8%  
trehalose is added as protectant  
before lyophilization.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA,  
10% FBS or 5% Trehalose), and aliquot  
the reconstituted protein solution to  
minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

Human Fc gamma RIIIA/CD16a Protein is a receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.

## Basic Information

### Description

Recombinant Human Fc-gamma RIII alpha/FCGR3A /CD16a (F176V) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Gln208(F176V)) of Human Fc-gamma RIII alpha/FCGR3A /CD16a (F176V) (Accession #AAH17865) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

### Shipping

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

### Operational Notes

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

### Storage

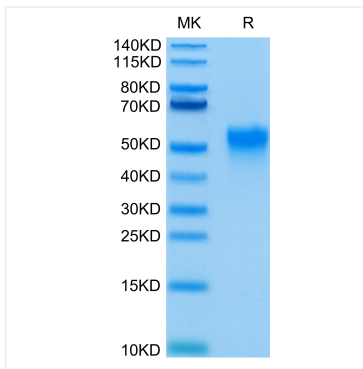
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

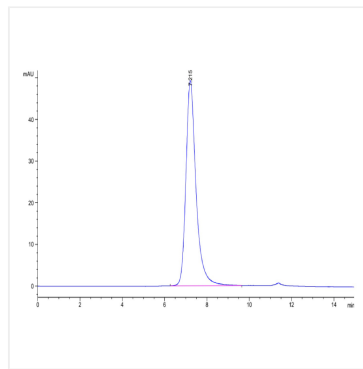
Avoid repeated freeze/thaw cycles.

\* For your safety and health, please wear a lab coat and disposable gloves when handling.

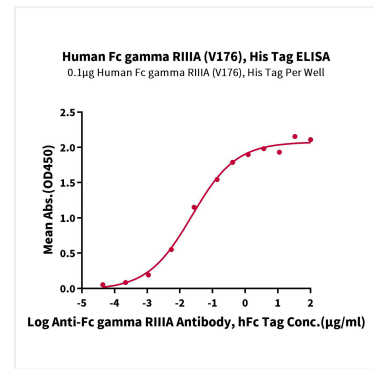
## Validation Data



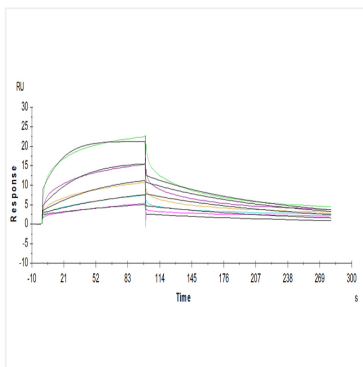
Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a (F176V) Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Fc gamma RIII A (V176) is greater than 95% as determined by SEC-HPLC.



Immobilized Human Fc gamma RIII A (V176) , His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-Fc gamma RIII A Antibody, hFc Tag with the EC<sub>50</sub> of 23.3ng/mL determined by ELISA (QC test).



Human Fc gamma RIII A (V176) , His Tag captured on CM5 Chip via Anti-His Antibody can bind Herceptin, hFc Tag with an affinity constant of 67.3nM as determined in SPR assay (Biacore T200).