

Recombinant Human Fc gamma RIIIA/CD16a Protein

Catalog No.: RP00475 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 2214 | P08637-1 |

Tags

C-His&Avi

Synonyms

Fc gamma RIIIA; FCGR3; FCGR3A; FCGR11; FcgRIIIA; FcR-10; CD16A; FCG3; IGFR3; FcRIIIa; FcRIII; CD16; IMD20

Product Information

| Source | Purification |
|--------------|---------------------------------|
| HEK293 cells | > 95% by SDS-PAGE > 95% 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

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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

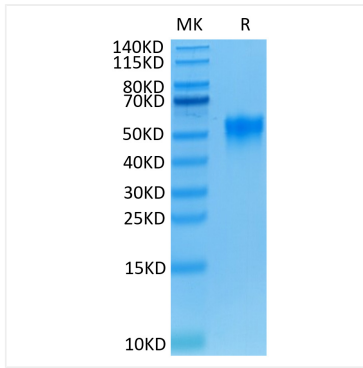
Recombinant Human Fc gamma RIIIA/CD16a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Gln208) of Human Fc gamma RIIIA/CD16a (Accession #P08637-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

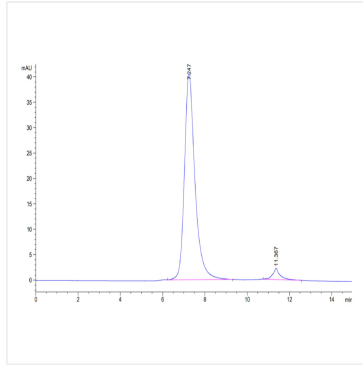
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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.

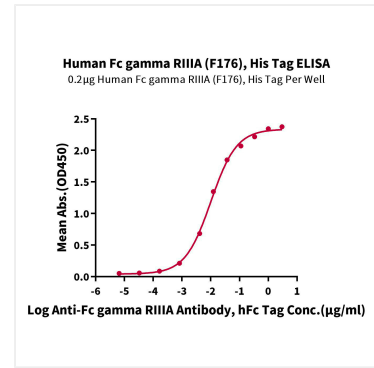
Validation Data



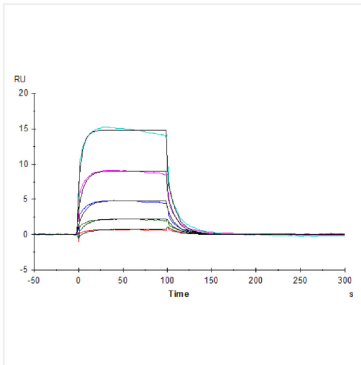
Human Fc gamma RIIIA (F176) on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



The purity of Human Fc gamma RIIIA (F176) is greater than 95% as determined by SEC-HPLC.



Immobilized Human Fc gamma RIIIA (F176) , His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC₅₀ of 10.1ng/mL determined by ELISA (QC Test).



Human Fc gamma RIIIA (F176) , His Tag captured on CM5 Chip via anti-His antibody can bind Rituximab, hFc Tag with an affinity constant of 0.92µM as determined in SPR assay (Biacore T200).