

Biotinylated Human Fc gamma RIIIA/CD16a (V176) Protein

Cat. No. FCR-HM43AB

Description

| | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source | Recombinant Biotinylated Human Fc gamma RIIIA/CD16a (V176) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus It contains Gly17-Gln208 (V176). |
| Accession | AAH17865 |
| Molecular Weight | The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1 EU per µg by the LAL method. |
| Purity | >95% as determined by Bis-Tris PAGE >95% as determined by HPLC |

Formulation and Storage

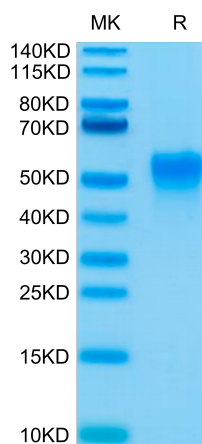
| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

Background

The 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.

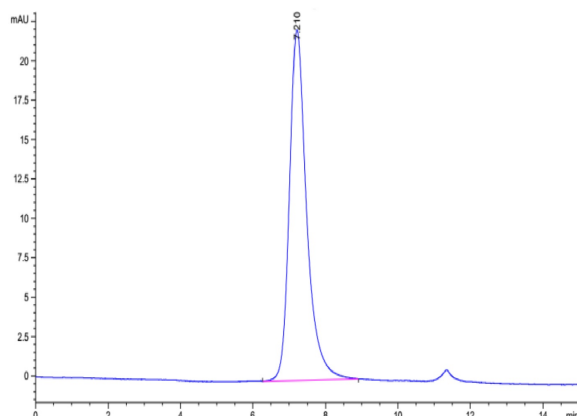
Assay Data

Bis-Tris PAGE



Biotinylated Human Fc gamma RIIIA (V176) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



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

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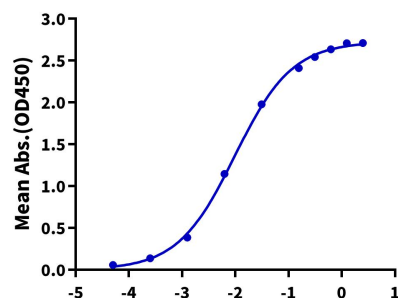


Assay Data

ELISA Data

Biotinylated Human Fc gamma RIIIA (V176), His Tag ELISA

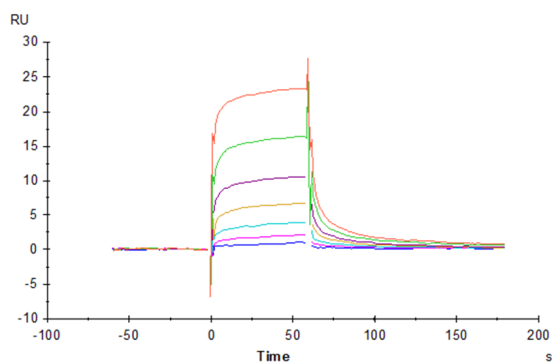
0.5µg Anti-Fc gamma RIIIA Antibody, hFc Tag Per Well



Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human Fc gamma RIIIA (V176), His Tag with the EC50 of 9.8 ng/ml determined by ELISA (QC Test).

Log Biotinylated Human Fc gamma RIIIA (V176), His Tag Conc.(µg/ml)

SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIIA (V176), His-Avi Tag with an affinity constant of 0.539 µM as determined in SPR assay (Biacore T200).