

Human Fc gamma RIIIA/CD16a (V176) Protein

Cat. No. FCR-HM43A

Description

Source	Recombinant 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 50-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

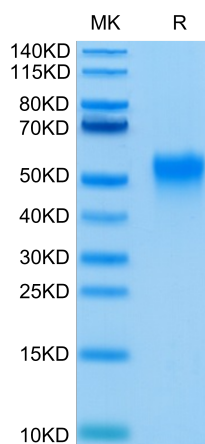
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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

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.

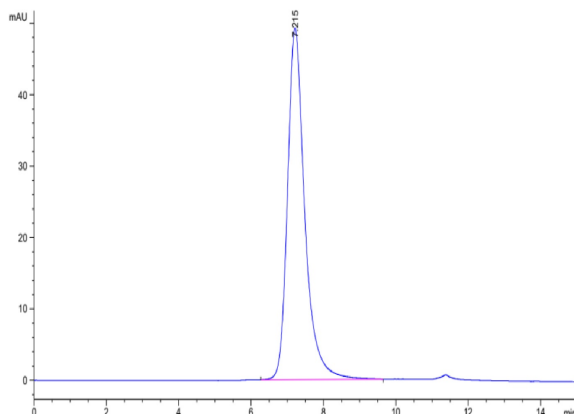
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



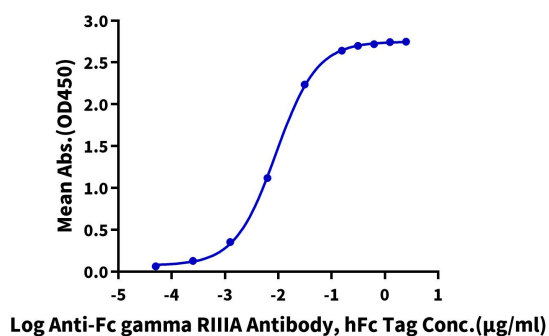
The purity of Fc gamma RIIIA (V176) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

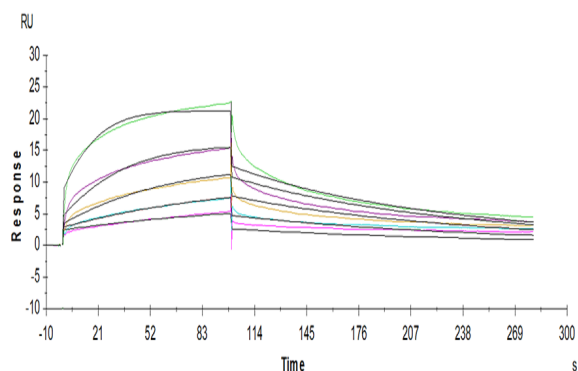
Human Fc gamma RIIIA (V176), His Tag ELISA

0.2µg Human Fc gamma RIIIA (V176), His Tag Per Well



Immobilized Human Fc gamma RIIIA (V176), His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA (QC test).

SPR Data



Human Fc gamma RIIIA (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).