

# Human Fc gamma RIIIA/CD16a (F176) Protein

Cat. No. CDA-HM416



## Description

<b>Source</b>	Recombinant Human Fc gamma RIIIA/CD16a (F176) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly17-Gln208(F176).
<b>Accession</b>	P08637-1
<b>Molecular Weight</b>	The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 48-58 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

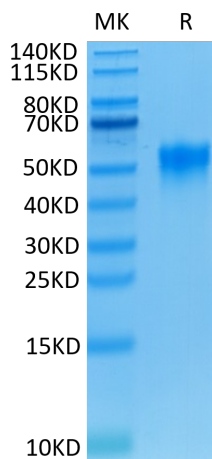
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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.

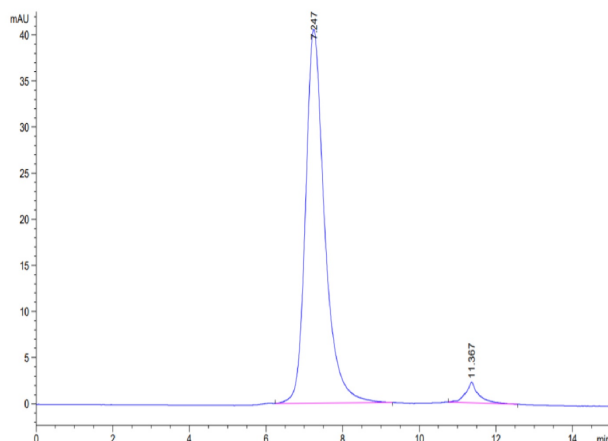
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



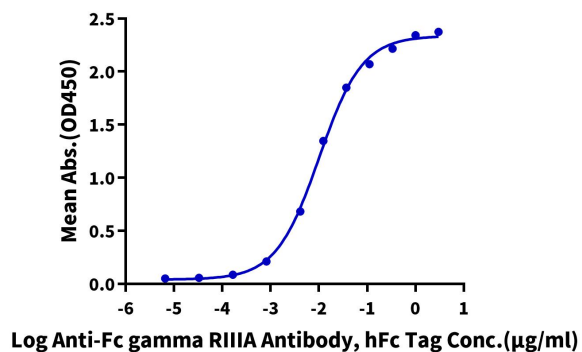
The purity of Human Fc gamma RIIIA (F176) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

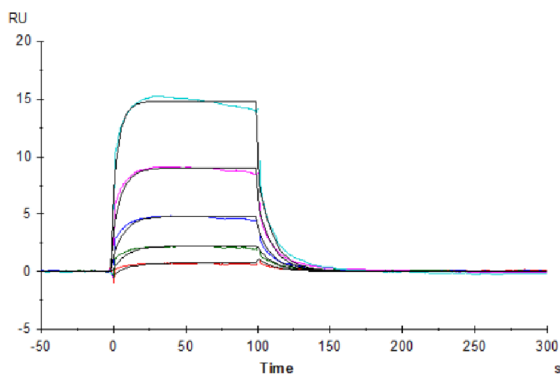
Human Fc gamma RIIIA (F176), His Tag ELISA

0.2µg Human Fc gamma RIIIA (F176), His Tag Per Well



Immobilized Human Fc gamma RIIIA (F176) , 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 10.1ng/ml determined by ELISA (QC Test).

SPR Data



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).