

Human Fc gamma RIIIA/CD16a (V176) Protein

Cat. No. FCR-HM13A



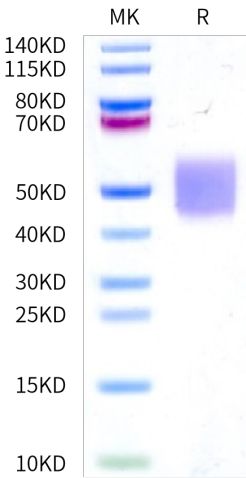
| Description | |
|------------------|---|
| Source | Recombinant Human Fc gamma RIIIA/CD16a (V176) Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly17-Gln208(V176). |
| Accession | AAH17865 |
| Molecular Weight | The protein has a predicted MW of 23.4 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.1 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 | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| 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. | |

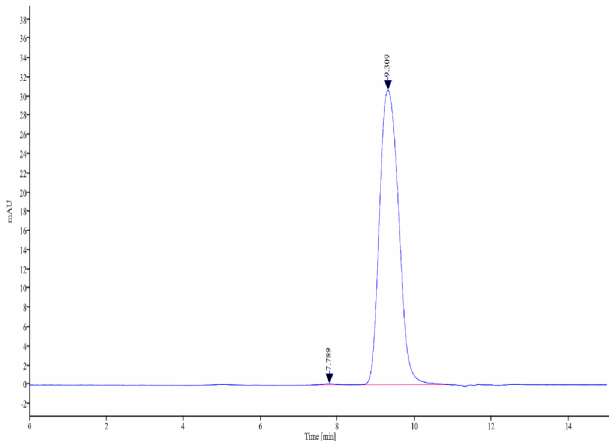
Assay Data

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

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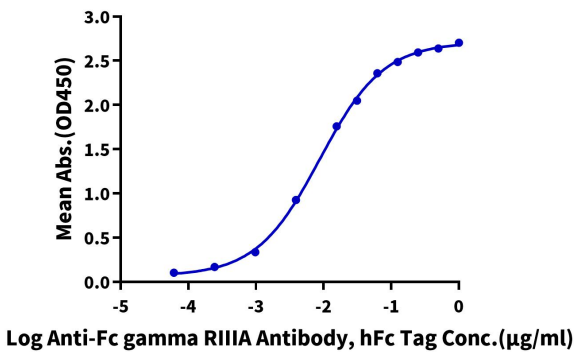


Assay Data

ELISA Data

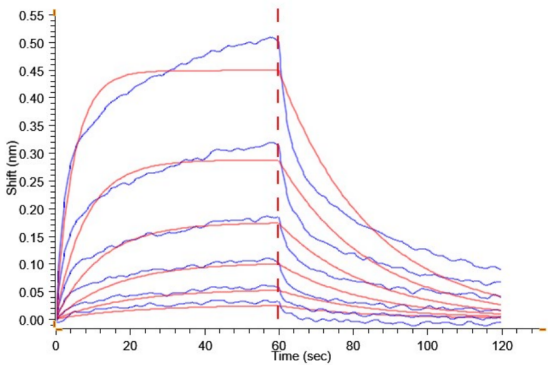
Human Fc gamma RIIIA (V176), His Tag ELISA

0.05µg Human Fc gamma RIIIA (V176), His Tag Per Well



Immobilized Human Fc gamma RIIIA (V176), His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 8.8ng/ml determined by ELISA.

BLI Data



Loaded Human Fc gamma RIIIA (V176) , His Tag on Anti-His-Biosensor can bind Trastuzumab, hFc Tag with an affinity constant of 96.30 nM as determined in BLI assay (Gator® Prime).