

Rev04
 Update: Aug,08,2025
DATASHEET

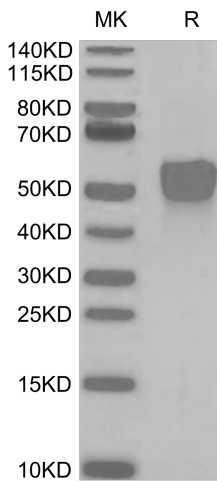
Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human

Cat. No.: Z04451

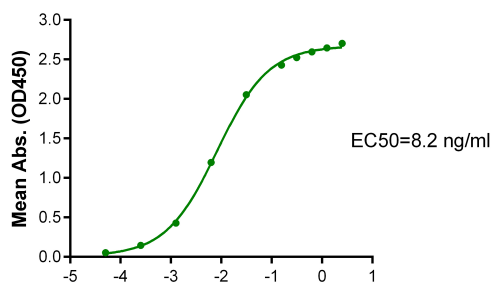
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Fc gamma RIIIA/CD16a (V176) [Gly17-Gln208 (V176)] Accession # AAH17865 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;">His</div> <div style="background-color: #4f81bd; color: white; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at 5µg/ml (100µl/well) on the plate can bind Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	24.7 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Examples

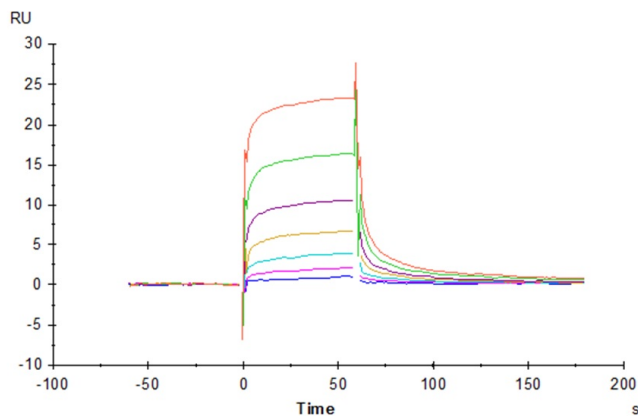


Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

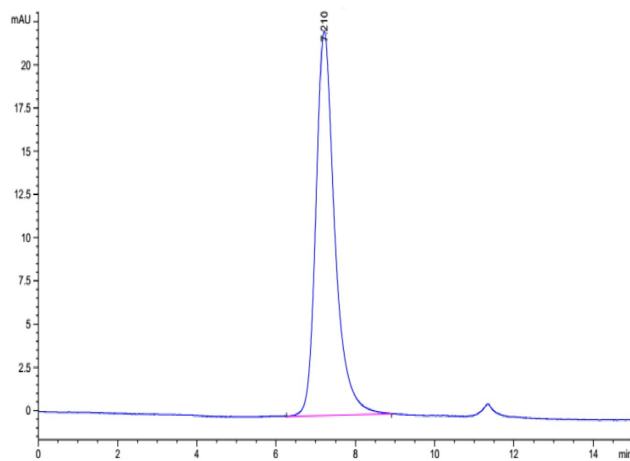


Log Biotinylated Human Fc gamma RIIIA (V176), His Tag Conc. (µg/ml)

Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at 5 µg/ml (100 µL/well) on the plate. Dose response curve for Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human, His Tag with the EC50 of 8.2 ng/ml determined by ELISA.



Rituximab captured on CM5 Chip via Protein A can bind Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human, His-Avi Tag with an affinity constant of 0.539 µM as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : Fc gamma RIIIA; FCGR3; FCGR3A; FCGRIII; FcγRIIIA; FcR-10; CD16A; FCG3; IGFR3; FcRIIIa; FcRIII; CD16; IMD20

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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