

Rev05
 Update: Aug,20,2025

DATASHEET

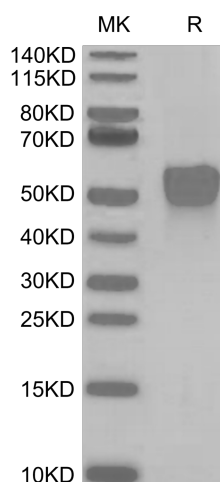
Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human

Cat. No.: Z04451

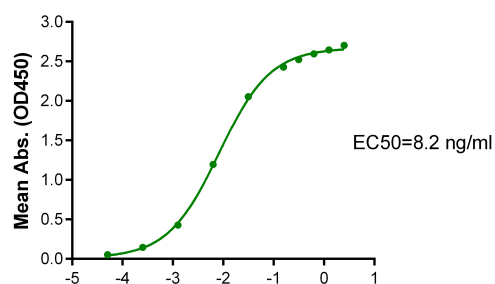
Product Introduction

Species	Human
Protein Construction	Fc gamma RIIIA/CD16a (V176) [Gly17-Gln208 (V176)] Accession # AAH17865 His Avi N-termC-term
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. 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 for 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

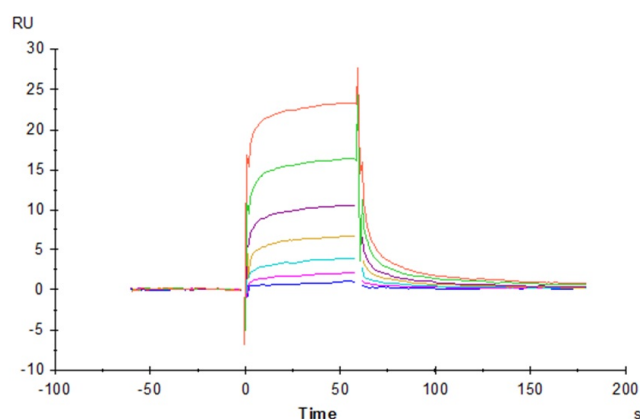


Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

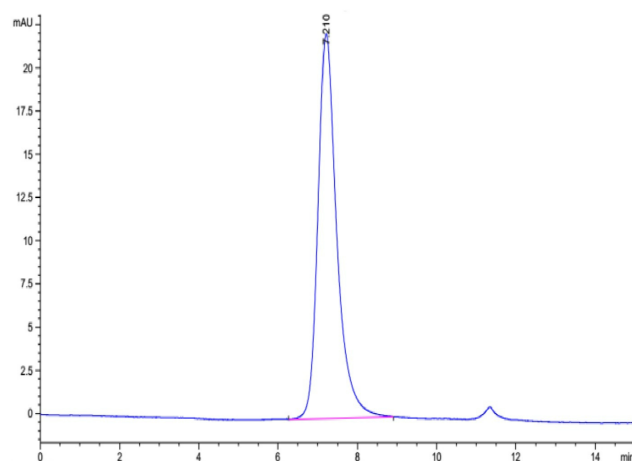


Log Biotinylated Human Fc gamma RIIIA (V176), His Tag Conc. ($\mu\text{g/ml}$)

Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at $5 \mu\text{g/ml}$ ($100 \mu\text{L/well}$) 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 $0.539 \mu\text{M}$ 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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