

Rev04
 Update: Aug,08,2025

DATASHEET

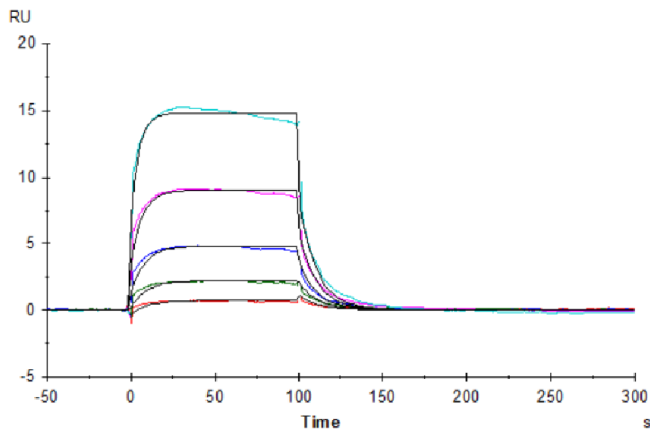
Fc gamma RIIIA/CD16a (F176), His & Avi, Human

Cat. No.: Z04252

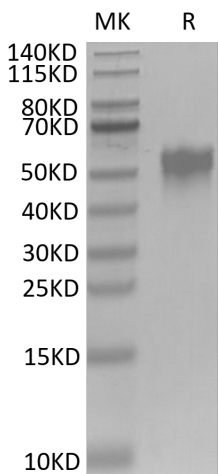
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Fc gamma RIIIA/CD16a (F176) [Gly17-Gln208 (F176)] Accession # P08637-1 </div> <div style="background-color: #90c080; color: white; padding: 5px; text-align: center; margin: 0 5px;">His</div> <div style="background-color: #508050; color: white; padding: 5px; text-align: center; margin: 0 5px;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
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 Fc gamma RIIIA/CD16a (F176), His & Avi, Human at 2µg/ml (100µl/well) on the plate can bind Anti-Fc gamma RIIIA Antibody, hFc Tag. 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 48-58 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.

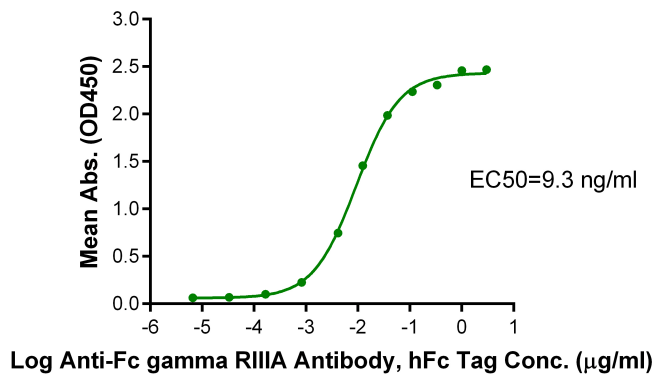
Examples



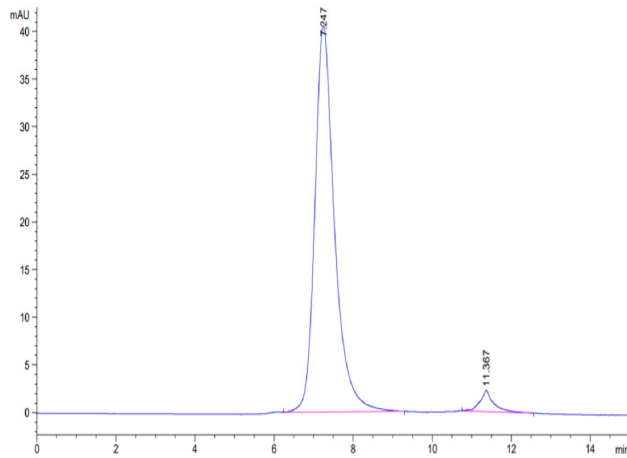
Fc gamma RIIIA/CD16a (F176), His & Avi, Human , His Tag captured on CM5 Chip via anti-His antibody can bind Rituximab, hFc Tag with an affinity constant of 0.92 μ M as determined in SPR assay (Biacore T200).



Fc gamma RIIIA/CD16a (F176), His & Avi, Human on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.



Immobilized Fc gamma RIIIA/CD16a (F176), His & Avi, Human, His Tag at 2 μ g/ml (100 μ L/well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 9.3 ng/ml determined by ELISA.



The purity of Fc gamma RIIIA/CD16a (F176), His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

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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