

Datasheet for ABIN7274654

Fc gamma RII (CD32) (AA 32-215) protein (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Fc gamma RII (CD32)
Protein Characteristics:	AA 32-215
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Mouse Fc gamma RIII/CD16 Protein
Sequence:	Leu32-Thr215
Characteristics:	Recombinant Mouse Fc gamma RIII/CD16 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu32-Thr215.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.194 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

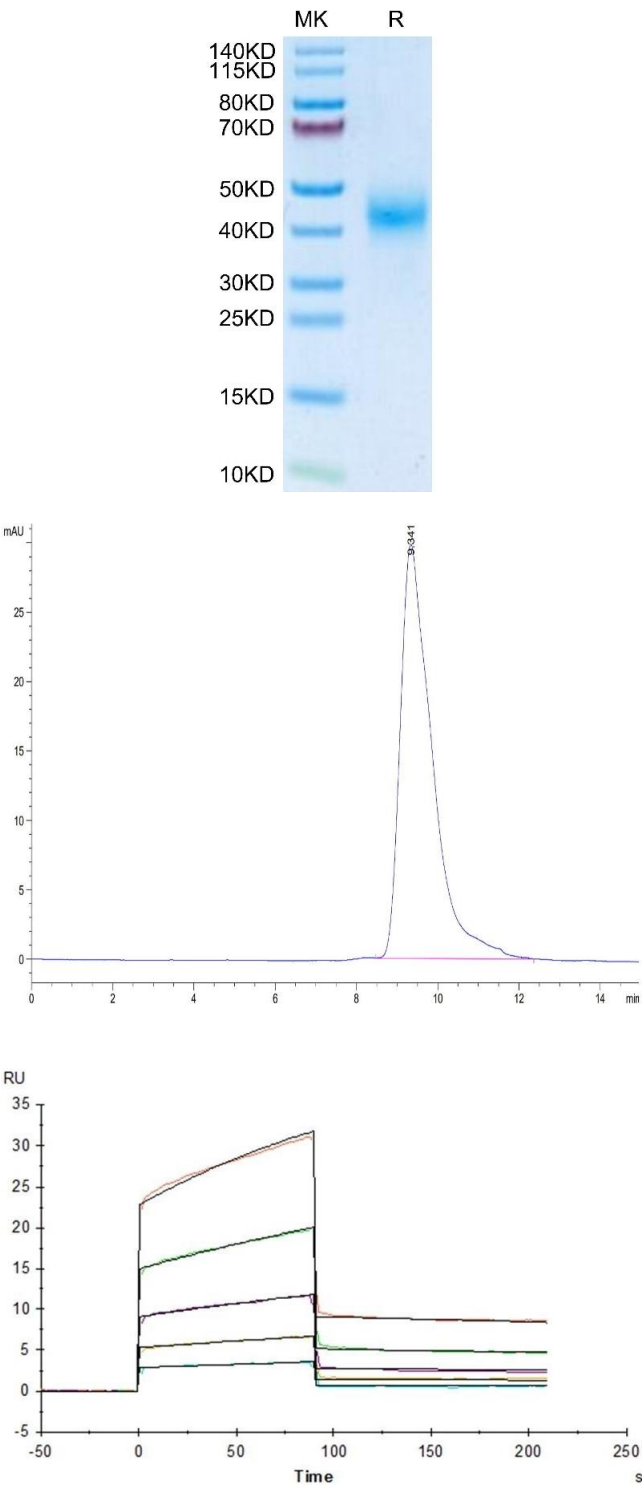
Target:	Fc gamma RII (CD32)
Alternative Name:	Fc gamma RIII (CD32 Products)
Background:	Immunoglobulin G (IgG) Fc receptors play a critical role in linking IgG antibody-mediated immune responses with cellular effector functions. A high resolution map of the binding site on human IgG1 for human Fc gamma RI, Fc gamma RIIA, Fc gamma RIIB, Fc gamma RIIEA, and FcRn receptors has been determined. A common set of IgG1 residues is involved in binding to all Fc gamma R, Fc gamma RII and Fc gamma RIII also utilize residues outside this common set.
Molecular Weight:	22.2 kDa. Due to glycosylation, the protein migrates to 40-48 kDa based on Tris-Bis PAGE result.
UniProt:	Q5D5I8

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months



SDS-PAGE

Image 1. Mouse Fc gamma RIII on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse Fc gamma RIII is greater than 95 % as determined by SEC-HPLC.

Surface Plasmon Resonance

Image 3. OKT3 captured on CM5 Chip via Protein A can bind Mouse Fc gamma RIII, His Tag with an affinity constant of 0.194 μ M as determined in SPR assay (Biacore T200).