

Datasheet for ABIN7274284

FCGR2A Protein (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FCGR2A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR2A protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Ala36-Ile218(H167)
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 0.680 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	FCGR2A
Alternative Name:	Fc gamma RIIA (FCGR2A Products)
Background:	CD32MGC23887, CDw32fc-gamma-RIIa, Fc gamma RIIA, FCG2, Fc-gamma-RIIa, FcGR, FCGR2, FCGR2A, FCGR2A1, FcgRIIA, FCRIIA, fcRII-a, IGFR2MGC30032, IgG Fc receptor II-a, FCG2, CD32A,The Fc gamma Rs have been divided into three classes based on close relationships in

Target Details

their extracellular domains, these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors ($\sim 10^{-8}$ - 10^{-9} M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities ($\sim 10^{-6}$ - 10^{-7} M) only recognizing IgG aggregates surrounding multivalent antigens.

Molecular Weight:	23.2 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
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Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
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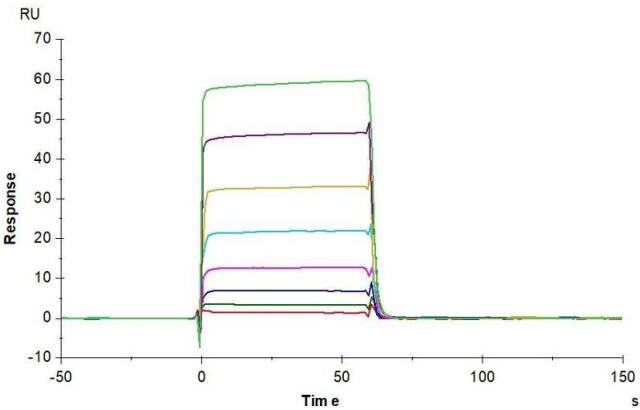
Storage:	4 °C,-80 °C
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Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
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Expiry Date:	12 months
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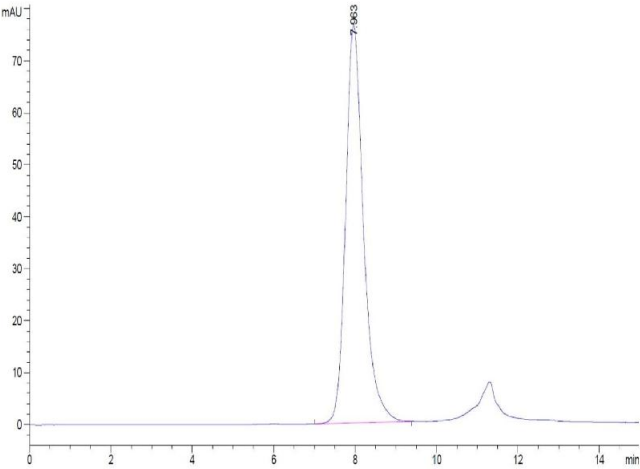
Surface Plasmon Resonance

Image 1. Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIA(H167), His-Avi Tag with an affinity constant of 0.680 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human Fc gamma RIIA/CD32a (H167) is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human Fc gamma RIIA/CD32a (H167) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

