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Datasheet for ABIN7274289

FCGR2B Protein (His-Avi Tag,Biotin)

3 Images

Overview

Quantity:	100 µg
Target:	FCGR2B
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR2B protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Ala46-Pro217
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 3.97 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	FCGR2B
Alternative Name:	Fc gamma RIIB (FCGR2B Products)
Background:	Fc gamma Receptor IIB/C, CD32, CD32b, CDw32, FCGR2B/C, CD32b/c, FcRII-b/c, FCG2, IGFR2, CD32A, Fc gamma RII, Fc gamma RIIB, FCG2 , FcGR, FCGR2, FCGR21, FCGR2A,The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular

Target Details

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: 22.5 kDa. Due to glycosylation, the protein migrates to 32-37 kDa based on Tris-Bis PAGE result.

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Production of Molecular Mediator of Immune Response](#), [BCR Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

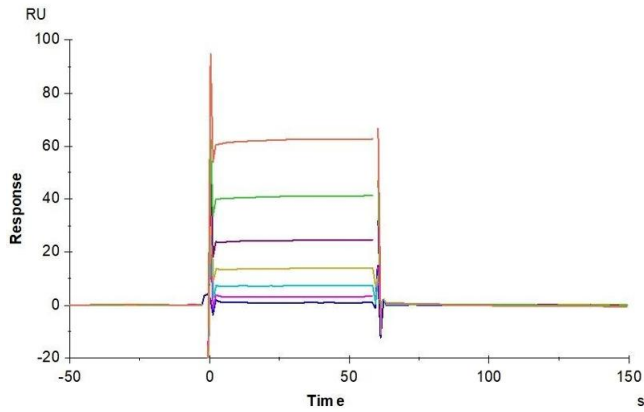
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{mL}$ is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

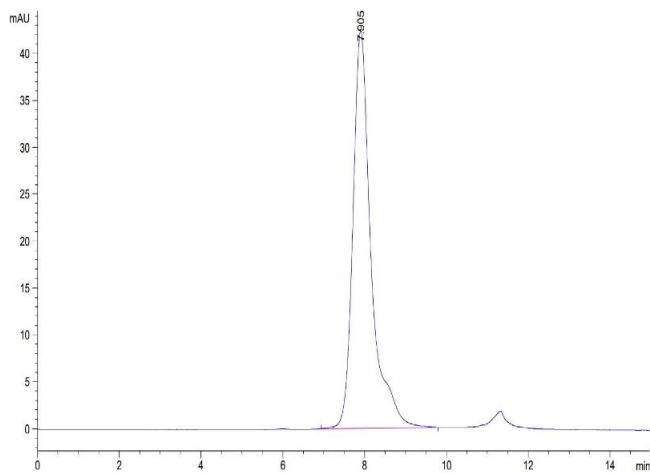
Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



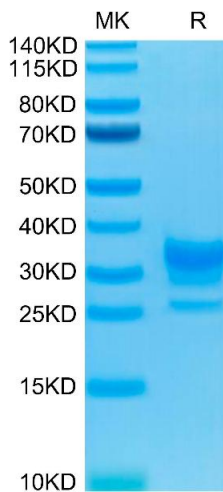
Surface Plasmon Resonance

Image 1. Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIB, His-Avi Tag with an affinity constant of 3.97 μM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Biotinylated Human Fc gamma RIIB/CD32b is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Biotinylated Human Fc gamma RIIB/CD32b on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.