

Datasheet for ABIN7274290

FCGR2B Protein (AA 40-217) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FCGR2B
Protein Characteristics:	AA 40-217
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR2B protein is labelled with His tag.

Product Details

Purpose:	Mouse Fc gamma RIIB/CD32b Protein
Sequence:	Thr40-Arg217
Characteristics:	Recombinant Mouse Fc gamma RIIB/CD32b Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Thr40-Arg217.
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 0.280 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

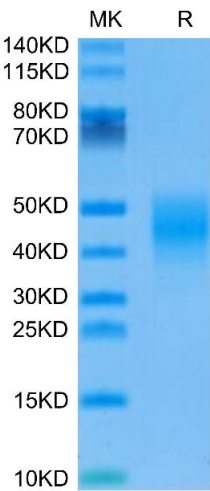
Target:	FCGR2B
Alternative Name:	Fc gamma RIIB (FCGR2B Products)
Background:	The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains, these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each 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:	21.4 kDa. Due to glycosylation, the protein migrates to 42-52 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_001070657
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
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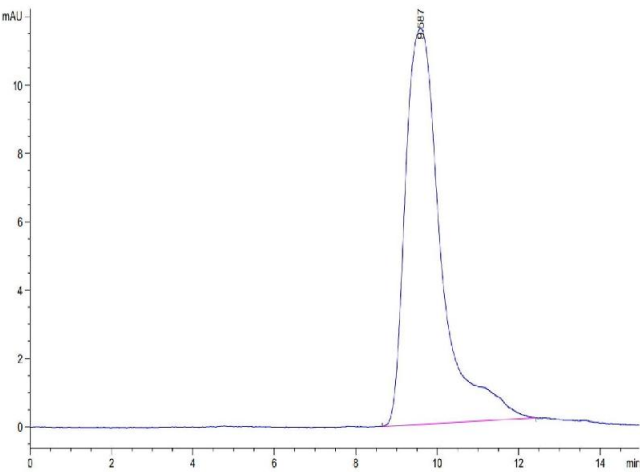
Handling

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



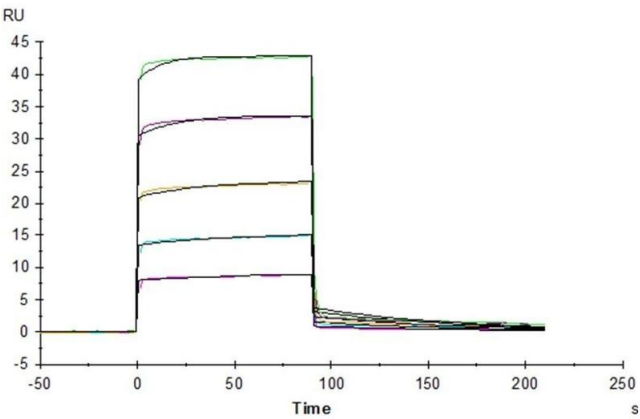
SDS-PAGE

Image 1. Mouse Fc gamma RIIB/CD32b 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 RIIB/CD32b 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 RIIB, His Tag with an affinity constant of 0.280 μ M as determined in SPR assay (Biacore T200).