

Datasheet for ABIN7274675

FcRn Protein (His tag)

6 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FcRn (FCGRT)
Origin:	Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FcRn protein is labelled with His tag.

Product Details

Sequence:	Ala24-Ser297(FCGRT) & Ile21-Met119(B2M)
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:	Immobilized Cynomolgus/Rhesus macaque FcRn, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 13.3ng/ml determined by ELISA. The affinity constant of 0.18 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	FcRn (FCGRT)
Alternative Name:	FcRn (FCGRT Products)
Background:	FcRn alpha chain, FCGRT, FCRN, FCGRT&B2M,The neonatal Fc receptor (FCRN) is an

Target Details

approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis and antigen presentation by dendritic cells. FcGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51, and p14, and forms an MHC class I-like heterodimer.

Molecular Weight: 31.5 kDa (FCGRT)&11.6 kDa (B2M). Due to glycosylation, the protein migrates to 35-38 kDa (FCGRT)&13-15 kDa (B2M) based on Tris-Bis PAGE result.

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

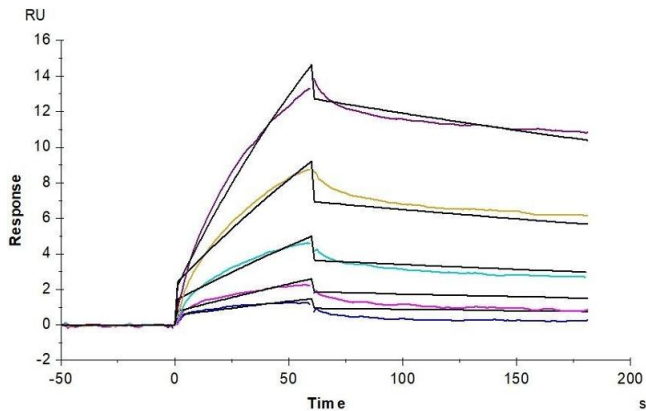
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % 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.

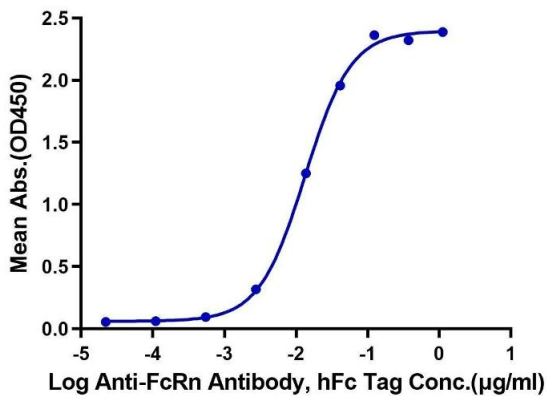
Expiry Date: 12 months



Surface Plasmon Resonance

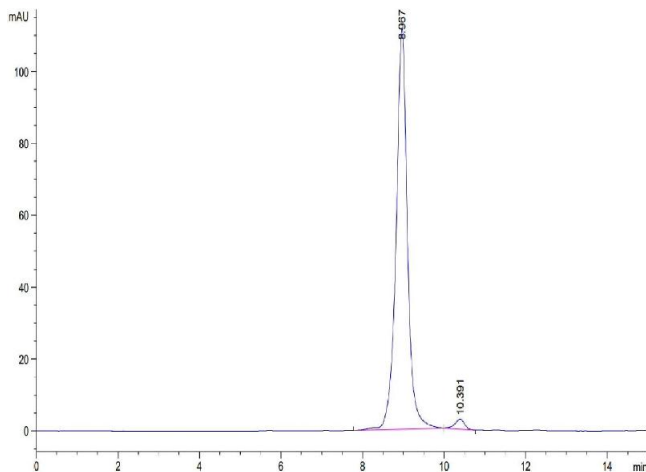
Image 1. Cynomolgus Serum Albumin, His Tag immobilized on CM5 Chip can bind Cynomolgus/Rhesus macaque FcRn, His Tag with an affinity constant of 0.108 μ M as determined in SPR assay (Biacore T200).

Cynomolgus/Rhesus macaque FcRn, His Tag ELISA
0.2 μ g Cynomolgus/Rhesus macaque FcRn, His Tag Per Well



ELISA

Image 2. Immobilized Cynomolgus/Rhesus macaque FcRn, His Tag at 2 μ g/mL (100 μ L/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 13.3 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Cynomolgus/Rhesus macaque FcRn is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274675.