

Datasheet for ABIN7274675

## FcRn Protein (AA 24-297) (His tag)



[Go to Product page](#)

### 6 Images

#### Overview

Quantity:	100 µg
Target:	FcRn
Protein Characteristics:	AA 24-297
Origin:	Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FcRn protein is labelled with His tag.

#### Product Details

Purpose:	Cynomolgus/Rhesus macaque FcRn Protein
Sequence:	Ala24-Ser297 (FCGRT) & Ile21-Met119 (B2M)
Specificity:	Uni-Prot: Q8SPV9 (FCGRT), Q8SPW0 (B2M)
Characteristics:	Recombinant Cynomolgus/Rhesus macaque FcRn Protein is expressed from HEK293 with His tag at the C-Terminus. It contains 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

## Product Details

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testing image for detail.

## Target Details

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Target: FcRn

Alternative Name: FcRn ([FcRn Products](#))

Background: The neonatal Fc receptor (FCRN) is an 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.

UniProt: [Q8SPV9](#)

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

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

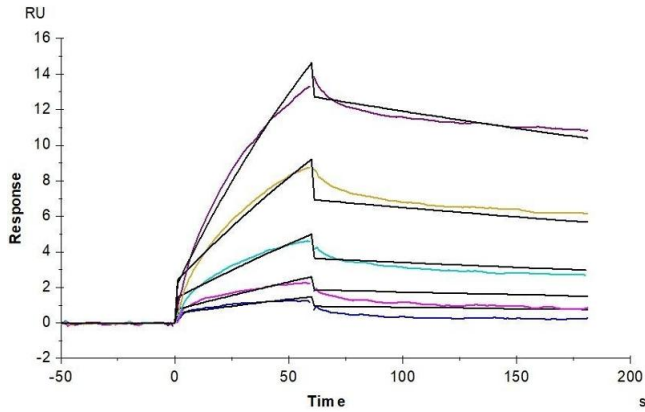
Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22 µm 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.

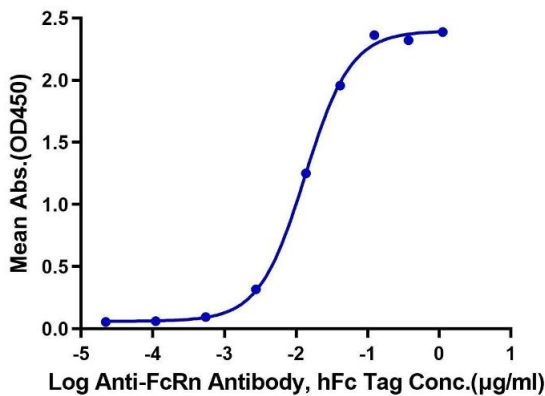
Expiry Date: 12 months



**Surface Plasmon Resonance**

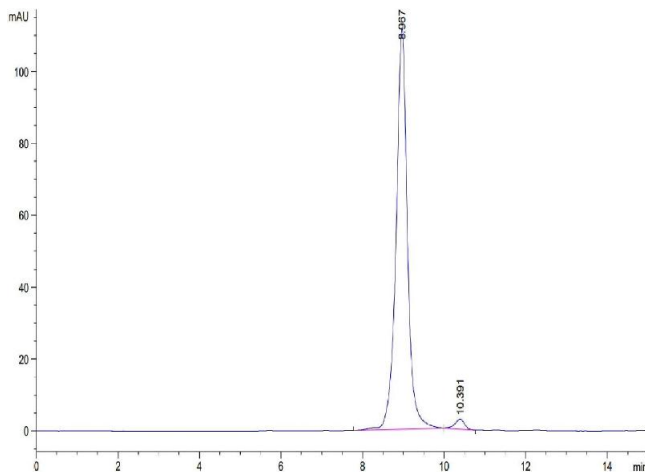
**Image 1.** Cynomolgus Serum Albumin, His Tag immobilized on CM5 Chip can bind Cynomolgus/Rhesus macaque FcRn, His Tag with an affinity constant of 0.108  $\mu\text{M}$  as determined in SPR assay (Biacore T200).

**Cynomolgus/Rhesus macaque FcRn, His Tag ELISA**  
0.2  $\mu\text{g}$  Cynomolgus/Rhesus macaque FcRn, His Tag Per Well



**ELISA**

**Image 2.** Immobilized Cynomolgus/Rhesus macaque FcRn, His Tag at 2  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the  $\text{EC}_{50}$  of 13.3  $\text{ng}/\text{mL}$  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.