

Datasheet for ABIN7274676
FcRn Protein (AA 24-297) (His tag)

6 Images

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Overview

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

Product Details

Purpose:	Human FcRn Protein
Sequence:	Ala24-Ser297 (FCGRT) & Ile21-Met119 (B2M)
Specificity:	Uni-Prot: P55899-1 (FCGRT), P61769-1 (B2M)
Characteristics:	Recombinant Human 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 Human FcRn, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 11.6ng/ml determined by ELISA. The affinity constant of 0.283 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

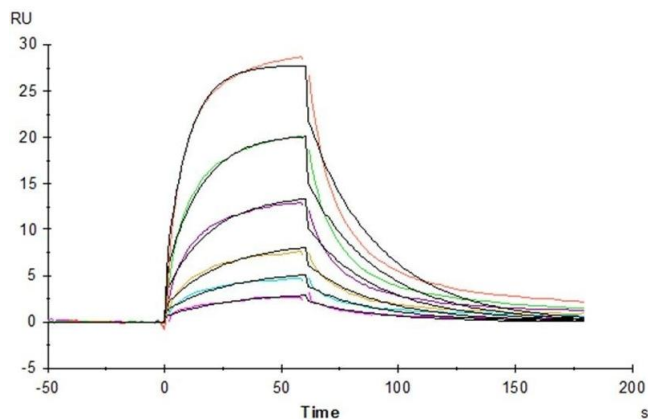
Target:	FcRn
Alternative Name:	FcRn (FcRn Products)
Background:	The neonatal Fc receptor (FCRN) is an approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis 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) & 11.7 kDa (B2M). Due to glycosylation, the protein migrates to 35-40 kDa (FCGRT) & 13-14 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
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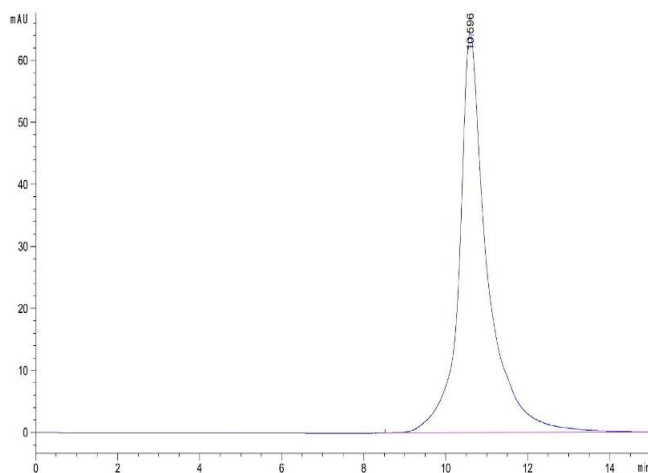
Handling

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



Surface Plasmon Resonance

Image 1. Human Serum Albumin, His Tag immobilized on CM5 Chip can bind Human FcRn, His Tag with an affinity constant of 0.728 μ M as determined in SPR assay (Biacore T200).

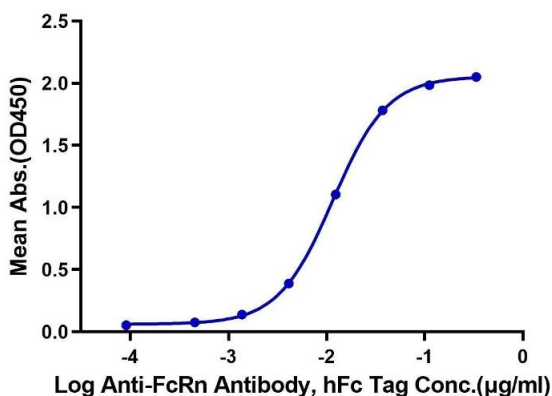


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human FcRn is greater than 95 % as determined by SEC-HPLC.

Human FcRn, His Tag ELISA

0.1 μ g Human FcRn, His Tag Per Well



ELISA

Image 3. Immobilized Human FcRn, His Tag at 1 μ g/mL (100 μ L/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 11.6 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274676.