#### Cynomolgus/Rhesus macaque FcRn Protein





Description	
Source	Recombinant Cynomolgus/Rhesus macaque FcRn Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ala24-Ser297 (FCGRT) and Ile21-Met119 (B2M).
Accession	Q8SPV9(FCGRT)&Q8SPW0(B2M)
Molecular Weight	The protein has a predicted MW of 31.5 kDa (FCGRT) and 11.6 kDa (B2M). Due to glycosylation, the protein migrates to 35-38 kDa (FCGRT) and 13-15 kDa (B2M) based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC
Formulation and Storage	

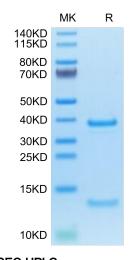
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

#### **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.

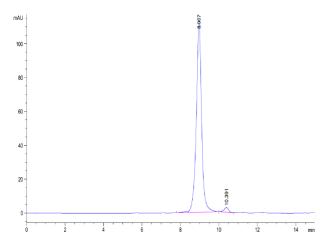
#### **Assay Data**

#### **Bis-Tris PAGE**



Cynomolgus/Rhesus macaque FcRn on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### **SEC-HPLC**



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

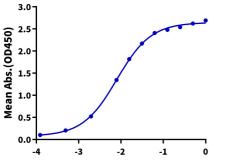
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#### **Assay Data**

#### **ELISA Data**

#### Cynomolgus/Rhesus macaque FcRn, His Tag ELISA

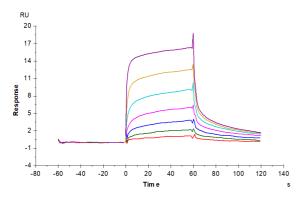
0.2μg Cynomolgus/Rhesus macaque FcRn, His Tag Per Well



Log Anti-FcRn Antibody, hFc Tag Conc.(µg/ml)

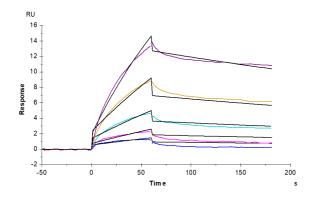
# Immobilized Cynomolgus/Rhesus macaque FcRn, His Tag at 2 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 8.0 ng/ml determined by ELISA (QC Test).

#### **SPR Data**



Cynomolgus/Rhesus macaque FcRn, His Tag captured on CM5 Chip via Anti-His Antibody can bind Trastuzumab with an affinity constant of 0.18  $\mu$ M as determined in SPR assay (Biacore T200).

#### **SPR Data**



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