

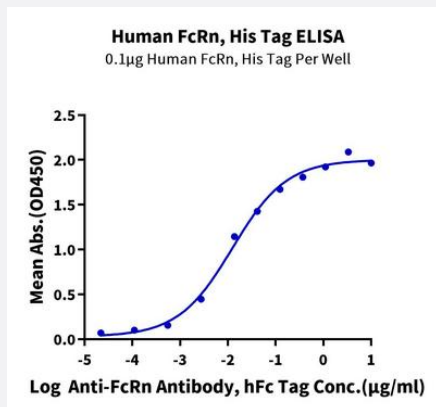
HuPro®

FCGRT/B2M (Human) Recombinant Protein

Catalog # P9771

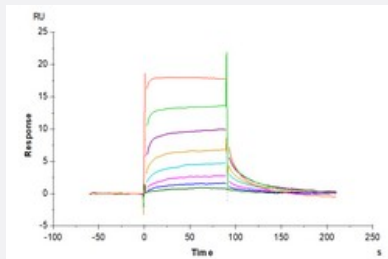
Size 100 ug

Applications



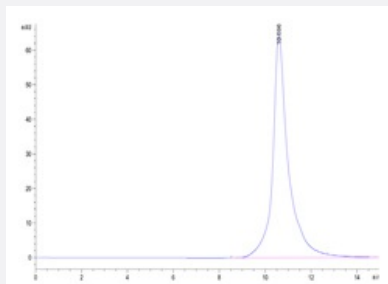
Enzyme-linked Immunoabsorbent Assay

Immobilized Human FcRn, His Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 12.4 ng/mL determined by ELISA (QC Test).



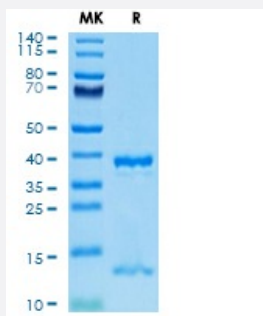
Surface Plasmon Resonance

Human FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Human IgG1 Fc, No Tag with an affinity constant of 0.28 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

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



Tris-Bis PAGE

Human FcRn on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human FCGRT B2M (P55899-1 P61769-1, Ala24-Ser297 Ile21-Met119) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Ala24-Ser297 Ile21-Met119
Host	Human
Theoretical MW (kDa)	31.5
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human FcRn is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human FcRn on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SPR SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human FcRn, His Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC50 of 12.4 ng/mL determined by ELISA (QC Test).

- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

Human FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Human IgG1 Fc, No Tag with an affinity constant of 0.28 uM as determined in SPR assay (Biacore T200).

Gene Info — B2M

Entrez GeneID [567](#)

Protein Accession# [P55899-1\(FCGRT\) | P61769-1\(B2M\)](#)

Gene Name B2M

Gene Alias -

Gene Description beta-2-microglobulin

Omim ID [109700 241600](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia

Other Designations beta chain of MHC class I molecules|beta-2-microglobin

Gene Info — FCGRT

Entrez GeneID [2217](#)

Protein Accession# [P55899-1\(FCGRT\) | P61769-1\(B2M\)](#)

Gene Name FCGRT

Gene Alias FCRN, alpha-chain

Gene Description	Fc fragment of IgG, receptor, transporter, alpha
Omim ID	601437
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. Alternative splicing results in multiple transcript variants. [provided by RefSeq]
Other Designations	FcRn alpha chain IgG Gc receptor neonatal Fc-receptor

Pathway

- [Antigen processing and presentation](#)

Disease

- [Arthritis](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease](#)
- [Edema](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lupus Nephritis](#)

- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Osteoarthritis](#)
- [Parkinson disease](#)
- [Stomach Neoplasms](#)