

## Product Information

### **MemDX™ Antibody Discovery - Bovine FcRn (FCGRT & B2M) (24-298(FCGRT)&21-118(B2M))**

#### **Membrane Protein, Partial, -His -Avi tag&Tag Free, [Biotin]**

Cat. No.: **MP1450F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Bovine FcRn (FCGRT & B2M) (24-298(FCGRT)&21-118(B2M)). It has been tested in SDS-PAGE, SPR. We provide this protein to facilitate your membrane protein antibody discovery and development.

#### **Product Specifications**

##### **Host Species**

Bovine

##### **Target Protein**

FcRn (FCGRT & B2M)

##### **Protein Length**

ECD

##### **Molecular Weight**

Biotinylated Bovine FcRn Heterodimer Protein, His,Avitag (SPR verified), produced by co-expression of FCGRT and B2M, has a calculated MW of 34.5 kDa (FCGRT) and 11.6 kDa (B2M). Subunit FCGRT is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag and subunit B2M contains no tag. The reducing (R) protein migrates as 37 kDa (FCGRT) and 12 kDa (B2M) respectively due to glycosylation.

##### **Sequence**

AA Ala 24 - Pro 298 (FCGRT) & Ile 21 - Leu 118 (B2M) (Accession # Q3T119-1 (FCGRT) & P01888-1 (B2M)).

#### **Product Description**

##### **Activity**

Yes

##### **Application**

SDS-PAGE, SPR

##### **Expression Systems**

HEK293

##### **Tag**

Subunit FCGRT is fused with a His tag at the C-terminus, followed by an Avi tag and subunit B2M contains no tag

##### **Protein Format**

Soluble

**Form**

LYOPH

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/μg by the LAL method

**Purity**

>90% as determined by SDS-PAGE

**Buffer**

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

**Storage**

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

**Target****Target Protein**

FcRn (FCGRT & B2M)

**Full Name**

Fc fragment of IgG receptor and transporter & beta-2-microglobulin

**Introduction**

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.

**Alternative Names**

FCRN, alpha-chain, IgG receptor FcRn large subunit p51, Fc fragment of IgG, receptor, transporter, alpha, FcRn alpha chain, IgG Fc fragment receptor transporter alpha chain, heavy chain of the major histocompatibility complex class I-like Fc receptor, immunoglobulin receptor, intestinal, heavy chain, major histocompatibility complex class I-like Fc receptor, neonatal Fc receptor, neonatal Fc-receptor for Ig, transmembrane alpha chain of the neonatal receptor

**Gene ID**

[338062](#); [280729](#)

**UniProt ID**

[A0A0B4J192](#); [P01888](#)