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Product Information

MemDX™ Antibody Discovery - Mouse FcRn (FCGRT & B2M) (22-297(FCGRT)&21-119(B2M)) Membrane Protein, Partial, -His -Avi tag&Tag Free, [Biotin]

Cat. No.: **MP1444F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Mouse FcRn (FCGRT & B2M) (22-297(FCGRT)&21-119(B2M)). It has been tested in SDS-PAGE, ELISA, BLI. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Mouse

Target Protein
FcRn (FCGRT & B2M)

Protein Length
ECD

Molecular Weight
Biotinylated Mouse FCGRT&B2M Heterodimer Protein, His,Avitag (BLI verified), produced by co-expression of FCGRT and B2M, has a calculated MW of 34.9 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 Beta-2 microglobulin (B2M) contains no tag at the C-terminus. The reducing (R) protein migrates as 45-55 kDa (FCGRT) and 13 kDa (B2M) respectively due to glycosylation.

Sequence
AA Ser 22 - Ser 297 (FCGRT) & Ile 21 - Met 119 (B2M) (Accession # Q61559-1 (FCGRT) & P01887-1 (B2M)).

Product Description

Activity
Yes

Application
SDS-PAGE, ELISA, BLI

Expression Systems
HEK293

Tag
Subunit FCGRT is fused with a His tag at the C-terminus , followed by an Avi tag and subunit Beta-2 microglobulin (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

>95% 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 coditions 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

14132; 12010

UniProt ID

Q61559; P01887