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# Datasheet for ABIN2870741 FcRn Protein (AA 22-297) (His tag, Strep Tag)

2	Images
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Publications 2



# Overview

Quantity:	50 µg
Target:	FcRn
Protein Characteristics:	AA 22-297
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FcRn protein is labelled with His tag,Strep Tag.

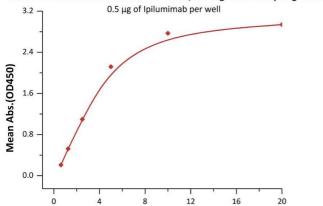
# Product Details

Brand:	MABSol®
Sequence:	AA 22-297
Characteristics:	Mouse FcRn / FCGRT & B2M Heterodimer Protein, produced by co-expression of FCGRT and B2M, has a calculated MW of 33 kDa (FCGRT) and 14.7 kDa (B2M). Subunit FCGRT is fused with his-tag at the C-terminus and subunit Beta-2 microglobulin (B2M) is fused with Twin-Strep tag at the C-terminus. The predicted N-terminus is Ser 22(FCGRT) & Ile 21(B2M). The reducing (R) protein migrates as 45-50 kDa (FCGRT) and 18 kDa (B2M) respectively due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per $\mu$ g by the LAL method.
Target Details	
Target:	FcRn

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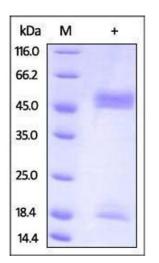
Target Details	
Alternative Name:	FcRn (FcRn Products)
Background:	FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51 (equivalent to FCGRT), and p14 (equivalent to beta-2-microglobulin), and forms an MHC class I-like heterodimer. Fc fragment of IgG, receptor, transporter, alpha (FCGRT) binds to the Fc region of monomeric immunoglobulins gamma and mediates the uptake of IgG from milk. FCGRT possible role in transfer of immunoglobulin G from mother to fetus. Beta-2-microglobulin (B2M) is a component of the class I major histocompatibility complex (MHC) and involved in the presentation of peptide antigens to the immune system.
Molecular Weight:	32.9 kDa (FCGRT) & 14.7 kDa (B2M)
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Publications	
Product cited in:	Yang, Kim, Seong, Tae, Kwon: "Comparative studies of the serum half-life extension of a protein via site-specific conjugation to a species-matched or -mismatched albumin." in: <b>Biomaterials science</b> , Vol. 6, Issue 8, pp. 2092-2100, (2018) (PubMed).
	Kenniston, Taylor, Conley, Cosic, Kopacz, Lindberg, Comeau, Atkins, Bullen, TenHoor, Adelman, Sexton, Edwards, Nixon: "Structural basis for pH-insensitive inhibition of immunoglobulin G recycling by an anti-neonatal Fc receptor antibody." in: <b>The Journal of biological chemistry</b> , Vol. 292, Issue 42, pp. 17449-17460, (2017) (PubMed).

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Mouse FCGRT&B2M Heterodimer Protein, His Tag&Twin-Strep Tag ELISA

Mouse FCGRT&B2M Heterodimer Protein, His Tag&Twin-Strep Tag Conc. ( $\mu$ g/mL)



## **ELISA**

**Image 1.** Immobilized Ipilumimab at  $5 \mu g/mL$  (100  $\mu L/well$ ) can bind Mouse FCGRT&B2M Heterodimer Protein, His Tag&T Tag (BLI verified) (ABIN2870740,ABIN2870741) with a linear range of 0.625-5  $\mu g/mL$  (QC tested).

### SDS-PAGE

**Image 2.** Mouse FcRn / FCGRT & B2M on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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