



Datasheet for ABIN2444126

## FcRn Protein (AA 24-297) (His tag,Strep Tag,Biotin)



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### 2 Images

#### Overview

Quantity:	200 µg
Target:	FcRn
Protein Characteristics:	AA 24-297
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FcRn protein is labelled with His tag,Strep Tag,Biotin.

#### Product Details

Brand:	MABSol@,UltraLys
Sequence:	AA 24-297
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	The subunit FCGRT carries a polyhistidine tag at the C-terminus. The subunit B2M carries a Strep II tag at the C-terminus. The protein has a calculated MW of 31.2 kDa (FCGRT), 13.1 kDa (B2M) . The protein migrates as 33 kDa (FCGRT), 13 kDa (B2M) respectively on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

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Target:	FcRn
Alternative Name:	FcRn ( <a href="#">FcRn Products</a> )
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:	31.2 kDa (FCGRT), 13.1 kDa (B2M)
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

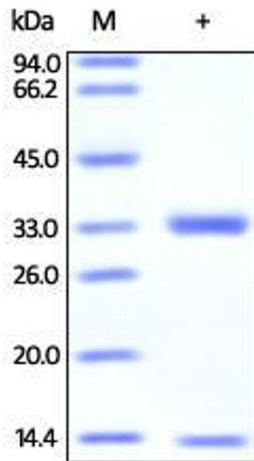
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Comment:	<p>A chemically labeled biotinylated protein with ultra sensitivity.</p> <p>The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.</p> <p>Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.</p>
Restrictions:	For Research Use only

## Handling

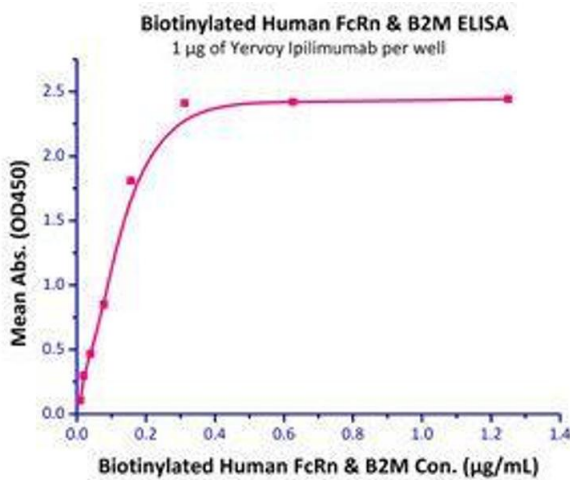
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Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.



### SDS-PAGE

**Image 1.** Biotinylated Human 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%.



### Binding Studies

**Image 2.** Immobilized Yervoy Ipilimumab (Human IgG1) at 10 µg/mL (100 µL/well) can bind Biotinylated Human FcRn / FCGRT & B2M (Cat# FCM-H8286 ) with a linear range of 0.02-0.15 µg/mL.