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Datasheet for ABIN2181083

FcRn Protein (AA 23-298) (His tag,Strep Tag)

1 Image

1 Publication

Overview

Quantity:	50 µg
Target:	FcRn
Protein Characteristics:	AA 23-298
Origin:	Rat
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 23-298
Characteristics:	Rat FcRn / FCGRT & B2M Heterodimer Protein, produced by co-expression of FCGRT and B2M, has a calculated MW of 31.8 kDa (FCGRT) and 13.1 kDa (B2M). Subunit FCGRT is fused with his-tag at the C-terminus and subunit Beta-2 microglobulin (B2M) is fused with Strep II-tag at the C-terminus. The predicted N-terminus is Ala 23 (FCGRT) & Ile 21 (B2M). The reducing (R) protein migrates as 45-50 kDa (FCGRT) and 14.5 kDa (B2M) respectively due to different glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	FcRn
Alternative Name:	FcRn (FcRn Products)
Sub Type:	Fusionprotein
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:	31.8 kDa (FCGRT) & 13.1 kDa (B2M)
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

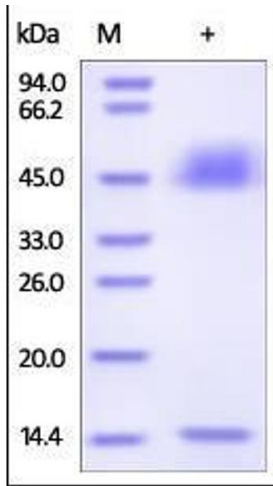
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Publications

Product cited in:	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: The Journal of biological chemistry , Vol. 292, Issue 42, pp. 17449-17460, (2017) (PubMed).
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SDS-PAGE

Image 1. Rat 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%.