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Datasheet for ABIN7317876 FCAR Protein (His tag)

Overview

Quantity:	100 µg
Target:	FCAR
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCAR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD89/FCAR Protein (His Tag)(Active)
Sequence:	Met 1-Asn 227
Characteristics:	A DNA sequence encoding the pro form of human FCAR extracellular domain (NP_001991.1) (Met 1-Asn 227) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind human IgA in functional Elisa.

Target Details

Target:	FCAR
Alternative Name:	CD89/FCAR (FCAR Products)

Target Details

Background:	<p>Background: FCAR, also called FcαRI or CD89, is a type I transmembrane receptor for Fc region of IgA which is the most abundant immunoglobulin in mucosal areas but is only the second most common antibody isotype in serum. This receptor is present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, especially phagocytes located in mucosal areas. Upon ligand IgA binding, FcαRI associates with the FcR γ signaling molecule bearing the immunoreceptor tyrosine-based activation motif (ITAM) through a unique charge-based mechanism and triggers multiple cell-mediated immune responses. It has been reported that Fc RI is a dual-function receptor that can mediate both inflammatory and anti-inflammatory responses depending on the type of interaction with its ligand. Sustained aggregation of FCAR results in activation of target-cell functions such as antigen presentation and cytokine release. In contrast, Monomeric targeting with serum IgA or with a variety of anti-FcαRI Fab fragments triggers an inhibitory response and additionally induces apoptosis. FcαRI thus play an fundamental role in preventing tumor development and growth, as well as in controlling inflammation.</p> <p>Synonym: Immunoglobulin Alpha Fc Receptor; IgA Fc Receptor; CD89; FCAR;CTB-61M7.2;FcalphaRI;FCAR;XXbac-BPG230H20.5</p>
Molecular Weight:	25 kDa
NCBI Accession:	NP_001991

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>