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## FCAR Protein (His tag)





#### Overview

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

#### **Product Details**

Purpose:	Recombinant Rat CD89/FCAR Protein (His Tag)
Sequence:	Met 1-Asn 228
Characteristics:	A DNA sequence encoding the rat FCAR (NP_973721.1) extracellular domain (Met 1-Asn 228) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	$<$ 1.0 EU per $\mu$ g of the protein as determined by the LAL method

#### **Target Details**

Target:	FCAR
Alternative Name:	CD89/FCAR (FCAR Products)
Background:	Background: FCAR, also called FcaRI 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, Fc $\alpha$ RI associates with the FcR  $\gamma$  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-Fc $\alpha$ RI Fab fragments triggers an inhibitory response and additionally induces apoptosis. Fc $\alpha$ RI thus play an fundamental role in preventing tumor development and growth, as well as in controlling inflammation.

Synonym: CD89

Molecular Weight:

24.8 kDa

NCBI Accession:

NP\_973721

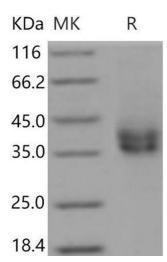
#### **Application Details**

Restrictions:

For Research Use only

#### 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:	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.



### **Western Blotting**

Image 1.