

Human CellExp™ CD89 Protein, Human Recombinant

12/20

CATALOG NO:	P1642-20 20 µg P1642-50 50 µg
ALTERNATE NAMES:	FcαRI; CD89 Antigen; FCAR; CTB-61M7.2; FCAR Variant 14; CD89; Fc Fragment of IgA Receptor; Immunoglobulin Alpha Fc Receptor; IgA Fc receptor
MOL. WT.	65-75 kDa
ACCESSION NO:	NP_001991.1; Q13603
PURITY:	≥ 97% by SDS-PAGE
SOURCE:	HEK293 Cells
ENDOTOXIN:	< 0.1 EU/µg of the protein as determined by LAL method.
TAG:	His -Tag
AMINO ACID SEQUENCE	The target protein is expressed with the sequence (Gln22-Asn227 aa) of CD89/FCAR was fused to His-tag at the C-terminus.
FORM:	Solid
FORMULATION:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
STORAGE CONDITIONS:	Store the lyophilized protein at -20 °C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.
DESCRIPTION:	FCAR, also called FcαRI or CD89, is a type I transmembrane receptor for Fc region of IgA which is the most abundant immunoglobulin present in the mucosal areas. This receptor is present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, especially phagocytes located in mucosal areas. It interacts with IgA-opsonized targets and triggers several immunologic defense processes, including phagocytosis, antibody-dependent cell-mediated cytotoxicity and stimulation of the release of inflammatory mediators. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. 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 a fundamental role in preventing tumor development and growth, as well as in controlling inflammation.

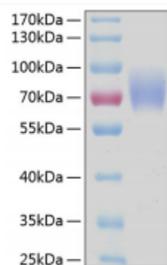


Fig A. Recombinant Human CD89/FCAR protein was loaded on SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain, showing a band at 65-75 kDa.

RELATED PRODUCTS:

Anti-CD79a Antibody (Clone HM57) (Cat No: A1568)
 Anti-CD79a Rabbit Monoclonal Antibody (Cat No: A1602)

FOR RESEARCH USE ONLY! Not to be used on humans.