Active Recombinant Human FCAMR protein, His-tagged

Cat. No. FCAMR-279H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCAMR(Leu17-Arg450) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	17-450 a.a.
Description	Fc alpha/mu Receptor (FCAMR), designated CD351, is an approximately 60 kDa transmembrane protein that serves as a receptor for IgA and IgM immunoglobulins. Mature human FCAMR consists of a 434 amino acid (aa) extracellular domain with one Ig-like domain, a 21 aa transmembrane segment, and a 61 aa cytoplasmic domain. Within the ECD, human FCAMR shares 51% aa sequence identity with mouse and rat FCAMR. Alternative splicing generates additional isoforms that are truncated following the Ig-like domain, are truncated before the transmembrane segment, or carry a 9 aa deletion and a substitution of the transmembrane segment. FCAMR is expressed on B cells, macrophages, and kidney mesangial cells. It binds to both IgA and IgM in immune complexes but not to monomeric immunoglobulin. FCAMR participates in pathogen clearance as well as foam cell formation by mediating the internalization of IgM-opsonized microbes and oxidized LDL-containing particles.
Predicted N Terminal	Leu17

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Human IgM is immobilized at 2.5 μg/mL, 100 μL/well, the concentration of Recombinant Human Fc alpha /μ R that produces 50% of the optimal binding response is approximately 0.12-0.72 μg/mL.
Molecular Mass	Predicted Molecular Mass: 47 kDa SDS-PAGE: 84-108 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 μg/mL in PBS.

GENE INFORMATION

Gene Name	FCAMR Fc fragment of IgA and IgM receptor [Homo sapiens]
Official Symbol	FCAMR
Synonyms	CD351; FCA/MR; FKSG87; Fc alpha/mu receptor; Fc receptor, IgA, IgM, high affinity; immunity related factor; receptor for Fc fragment of IgA and IgM

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Gene ID	83953
mRNA Refseq	NM_001122979
Protein Refseq	NP_001116451
MIM	605484
UniProt ID	Q8WWV6

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