

Active Recombinant Human Mucosal Vascular Addressin Cell Adhesion Molecule 1, Fc-tagged

Cat. No. MADCAM1-5684H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MADCAM1 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (N-terminus) and Met1-Gln333 (C-terminus).
Species	Human
Source	Mammalian Cells
Protein Length	1-333 a.a.
Description	MADCAM1 is an approximately 60 kDa type 1 transmembrane glycoprotein. It is an endothelial cell adhesion molecule that belongs to the immunoglobulin superfamily of proteins. Human MADCAM1 is synthesized as a 382 amino acid precursor that contains an 18 aa signal sequence, a 299 aa extracellular domain, a 21 aa transmembrane segment, and a 44 aa cytoplasmic tail. Within the ECD there is one potential site for N-linked glycosylation. The ECD comprises two Ig-like domains of 90 aa and 119 aa, respectively, each possessing invariant cysteine residues that stabilize the Ig loop.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Val23 & Glu29
Molecular Weight	59.3 kDa

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Activity	Measured by the ability of the immobilized protein to support the adhesion of HUT78 human mature cutaneous T cell lymphoma cells. When 5×10^4 cells/well are added to recombinant human MADCAM1/Fc Chimera coated plates ($2.5 \mu\text{g/mL}$ with 100 L/well), approximately 50%-70% will adhere after 1 hour incubation at 37°C in the presence of 1 mM MnCl_2 .
Endotoxin Level	$<1.0 \text{ EU}$ per $1 \mu\text{g}$ of the protein by the LAL method.
SDS-PAGE	85-100kDa, reducing conditions.
Purity	$>95\%$, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	$200 \mu\text{g/mL}$ in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	MADCAM1 mucosal vascular addressin cell adhesion molecule 1 [Homo sapiens]
Official Symbol	MADCAM1
Synonyms	MADCAM1; mucosal vascular addressin cell adhesion molecule 1; MACAM1; mucosal addressin cell adhesion molecule 1; MAdCAM-1; hMAdCAM-1; mucosal addressin cell adhesion molecule-1
Gene ID	8174

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mRNA Refseq	NM_130760
Protein Refseq	NP_570116
MIM	102670
UniProt ID	Q13477
Chromosome Location	19p13.3
Pathway	Adaptive ImmuneSystem; Cell adhesion molecules (CAMs); Immune System; Immunoregulatoryinteractions between a Lymphoid and a non-Lymphoid cell; Integrin cellsurface interactions; Intestinal immune network for IgA production;Paxillin-independent events mediated by a4b1 and a4b7; Signal Transduction
Crystallographicstructu of human mucosal addressin cell adhesion molecule 1.	