

MAdCAM1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77748
Synonyms:	MAdCAM-1; MADCAM1; MACAM1
Species:	Mouse
Source:	HEK293
Accession:	Q61826-1 (Q22-S364)
Gene ID:	/
Molecular Weight:	60-70 kDa

PROPERTIES

AA Sequence	<pre> Q S F Q V N P P E S E V A V A M G T S L Q I T C S M S C D E G V A R V H W R G L D T S L G S V Q T L P G S S I L S V R G M L S D T G T P V C V G S C G S R S F Q H S V K I L V Y A F P D Q L V V S P E F L V P G Q D Q V V S C T A H N I W P A D P N S L S F A L L L G E Q R L E G A Q A L E P E Q E E E I Q E A E G T P L F R M T Q R W R L P S L G T P A P P A L H C Q V T M Q L P K L V L T H R K E I P V L Q S Q T S P K P P N T T S A E P Y I L T S S S T A E A V S T G L N I T T L P S A P P Y P K L S P R T L S S E G P C R P K I H Q D L E A G W E L L C E A S C G P G V T V R W T L A P G D L A T Y H K R E A G A Q A W L S V L P P G P M V E G W F Q C R Q D P G G E V T N L Y V P G Q V T P N S S S </pre>
Biological Activity	Immobilized Human FcRH5, His Tag at 0.5 µg/mL(100 µl/well) on the plate. Dose response curve for Ant-FcRH5 Antibody, hFc Tag with the EC ₅₀ of 12.5 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

MAdCAM1 protein, expressed by mucosal venules, serves as a cell adhesion leukocyte receptor crucial for directing lymphocyte traffic into mucosal tissues, including the Peyer patches and the intestinal lamina propria. This protein plays a pivotal role in regulating both the passage and retention of leukocytes. MAdCAM1 can effectively bind to both integrin alpha-4/beta-7 and L-selectin, facilitating comprehensive control over leukocyte adhesion. Both isoform 1 and isoform 2 of MAdCAM1 demonstrate the ability to adhere to integrin alpha-4/beta-7. Notably, isoform 2, distinguished by its lack of the mucin-like domain, may specialize in supporting integrin alpha-4/beta-7-dependent adhesion strengthening, independently of L-selectin binding. The protein forms homodimers to accomplish its functional roles in mediating cell adhesion.

Caution: Product has not been fully validated for medical applications. For research use only.

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