

Anti-MADCAM-1 Antibody

Catalog # ABO11390

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	Q13477
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mucosal addressin cell adhesion molecule 1(MADCAM1) detection. Tested with WB, IHC-P, IHC-F in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8174
Other Names	Mucosal addressin cell adhesion molecule 1, MAdCAM-1, hMAdCAM-1, MADCAM1
Calculated MW	40155
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Highly expressed on high endothelial venules (HEV) and lamina propria venules found in the small intestine, and to a lesser extent in the colon and spleen. Very low levels of expression found in pancreas and brain. Not expressed in the thymus, prostate, ovaries, testis, heart, placenta, lung, liver, skeletal muscle, kidney or peripheral blood leukocytes. .
Source	Eukaryota
Protein Name	Mucosal addressin cell adhesion molecule 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MAdCAM1(173-190aa EEPQGDEDVLFVRTERWR).

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

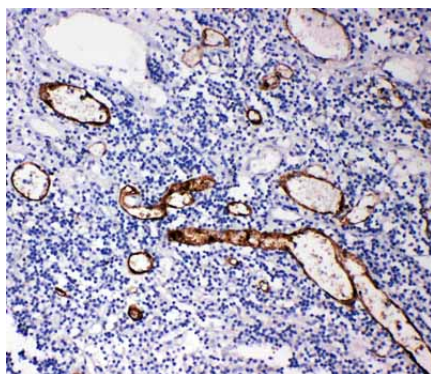
Protein Information

Name	MADCAM1
Function	Cell adhesion leukocyte receptor expressed by mucosal venules, helps to direct lymphocyte traffic into mucosal tissues including the Peyer patches and the intestinal lamina propria. It can bind both integrin alpha-4/beta-7 and L-selectin, regulating both the passage and retention of leukocytes. Isoform 2, lacking the mucin-like domain, may be specialized in supporting integrin alpha-4/beta-7- dependent adhesion strengthening, independent of L-selectin binding.
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Highly expressed on high endothelial venules (HEV) and lamina propria venules found in the small intestine, and to a lesser extent in the colon and spleen. Very low levels of expression found in pancreas and brain. Not expressed in the thymus, prostate, ovaries, testis, heart, placenta, lung, liver, skeletal muscle, kidney or peripheral blood leukocytes.

Background

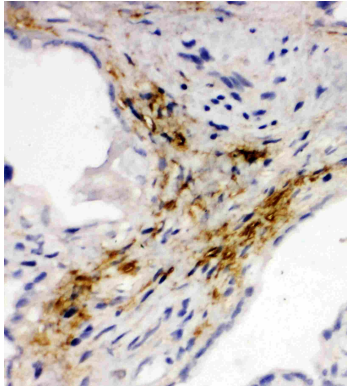
MADCAM1 (Mucosal Vascular Addressin Cell Adhesion Molecule 1), also known as MACAM1, is a protein that in humans is encoded by the MADCAM1 gene. By PCR-based analysis of somatic cell hybrids, Leung et al. (1997) mapped the MACAM1 gene to chromosome 19. The protein encoded by this gene is an endothelial cell adhesion molecule that interacts preferentially with the leukocyte beta7 integrin LPAM-1 (alpha4 / beta7), L-selectin, and VLA-4 (alpha4/beta1) on myeloid cells to direct leukocytes into mucosal and inflamed tissues. It is a member of the immunoglobulin superfamily and is similar to ICAM-1 and VCAM-1.

Images



Anti-MAdCAM1 antibody, ABO11390, IHC(P) IHC(P):
Human Appendicitis Tissue

Anti-MAdCAM1 antibody, ABO11390, Western blotting
All lanes: Anti MAdCAM1 (ABO11390) at 0.5 µg/ml
WB: HELA Whole Cell Lysate at 40 µg
Predicted bind size: 40 kDa
Observed bind size: 40 kDa



Anti-MAdCAM1 antibody, ABO11390, IHC(F)IHC(F):
Human Placenta Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.