10320 Camino Santa Fe, Suite G
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Anti-MADCAM-1 Antibody
Catalog # ABO11390

Specification

Anti-MADCAM-1 Antibody - 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.

Anti-MADCAM-1 Antibody - Additional Information

Gene ID 8174

Other Names
Mucosal addressin cell adhesion molecule 1, MAdCAM-1, hMAdCAM-1, MADCAM1

Calculated MW
40155 MW KDa

Application Details
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Membrane; Single-pass type I membrane protein.

Tissue Specificity
Highly expressed on high endothelial venules (HEV) and lamina propia 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. .

Protein Name
Mucosal addressin cell adhesion molecule 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human MAdCAM1(173-190aa EEPQGDEDVLFRVTERWR).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, 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.**

Anti-MADCAM-1 Antibody - 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 propia 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.

Anti-MADCAM-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MADCAM-1 Antibody - Images

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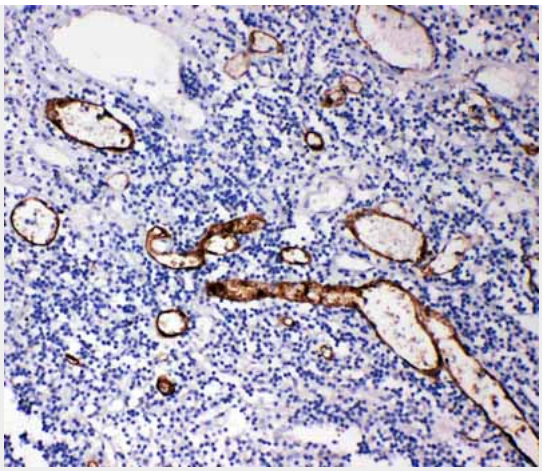
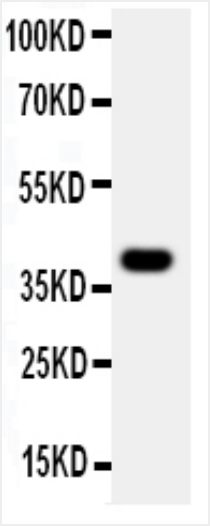
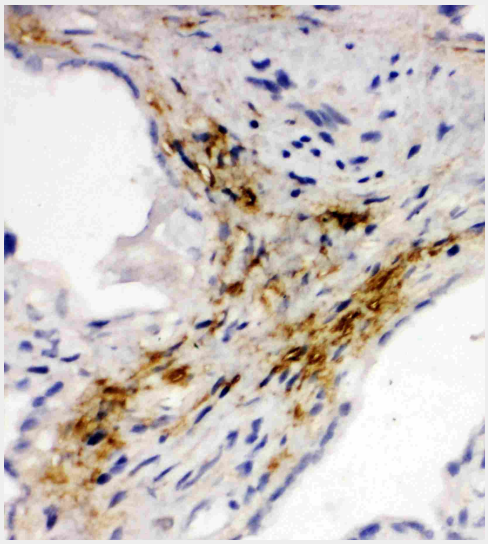


Anti-MAdCAM1 antibody, ABO11390, IHC(P)IHC(P): Human Appendicitis Tissue



Anti-MAdCAM1 antibody, ABO11390, Western blottingAll lanes: Anti MAdCAM1 (ABO11390) at 0.5ug/mlWB: HELA Whole Cell Lysate at 40ugPredicted bind size: 40KDObserved bind size: 40KD



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

Anti-MADCAM-1 Antibody - Background

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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 endothelil 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.