



Datasheet for ABIN3044076  
**anti-MADCAM1 antibody (Middle Region)**



[Go to Product page](#)

1 Validation

3 Images

### Overview

Quantity:	100 µg
Target:	MADCAM1
Binding Specificity:	AA 173-190, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Mucosal addressin cell adhesion molecule 1(MADCAM1) detection. Tested with WB, IHC-P, IHC-F in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human MAdCAM1(173-190aa EEPQGDEDVLFVRTERWR).
Sequence:	EEPQGDEDVL FRVTERWR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Mucosal addressin cell adhesion molecule 1(MADCAM1) detection. Tested with WB, IHC-P, IHC-F in Human. Gene Name: mucosal vascular addressin cell adhesion molecule 1 Protein Name: Mucosal addressin cell adhesion molecule 1

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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Target: MADCAM1

Alternative Name: MADCAM1 ([MADCAM1 Products](#))

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.

Synonyms: Addressin mucosal antibody|hMAdCAM 1 antibody|hMAdCAM-1 antibody|MACAM1 antibody|MADCA\_HUMAN antibody|MAdCAM 1 antibody|MAdCAM-1 antibody|Madcam1 antibody|Mucosal addressin cell adhesion molecule 1 antibody|Mucosal vascular addressin cell adhesion molecule 1 antibody

UniProt: [Q13477](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for MADCAM1 is approximately 0.5 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

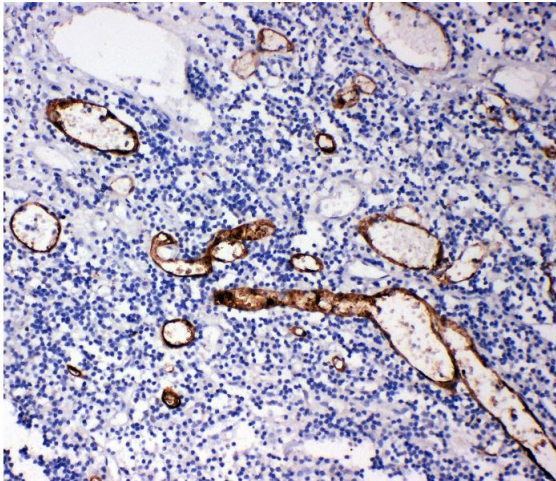
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

Restrictions: For Research Use only

## Handling

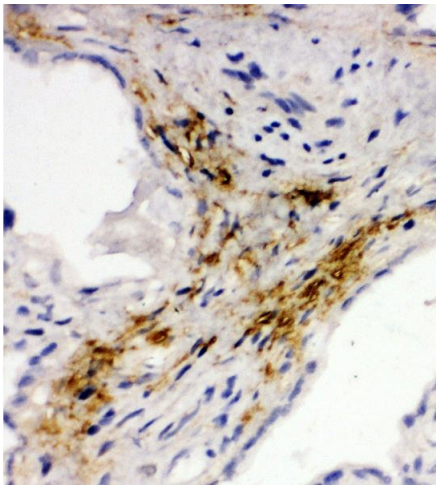
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.
Expiry Date:	12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-MAdCAM1 antibody, IHC(P) IHC(P): Human Appendicitis Tissue



### Immunohistochemistry

**Image 2.** Anti-MAdCAM1 antibody, IHC(F) IHC(F): Human Placenta Tissue



### Western Blotting

**Image 3.**



## Successfully validated (Immunohistochemistry (IHC))

by [Human Protein Atlas](#)

Report Number: 300031

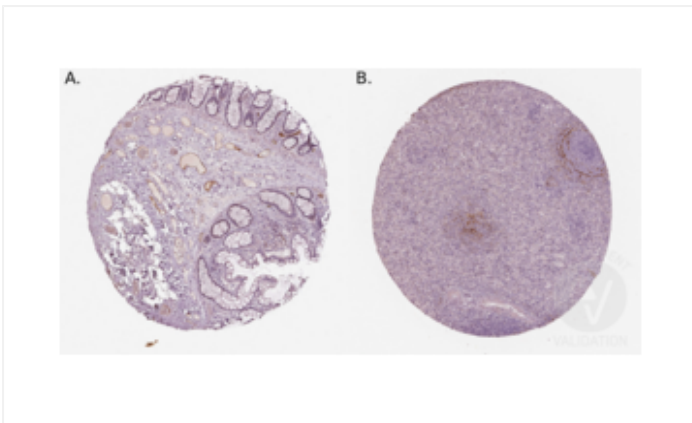
Date: Dec 13 2016

Target:	MADCAM1
Method validated:	Immunohistochemistry (IHC)
Positive Control:	colon, spleen
Notes:	Passed. ABIN3044076 staining is consistent with RNA-seq data and published literature.
Primary Antibody:	ABIN3044076
Secondary Antibody:	HRP polymer (ThermoFisher Scientific, TL-125-PH)
Protocol:	<ul style="list-style-type: none"><li>• Sample preparation:<ul style="list-style-type: none"><li>◦ Fixation and TMA preparation according to PMID: 22688270.</li><li>◦ Cut 4µm TMA sections using a waterfall microtome (ThermoFisher Scientific, HM355S).</li><li>◦ Dry sections ON at RT and then back them for 12-24h at 50°C.</li></ul></li><li>• Deparaffinization and rehydration in xylene and graded alcohol series:<ul style="list-style-type: none"><li>◦ xylene twice for 3min.</li><li>◦ 100% ethanol for 1min.</li><li>◦ 95% ethanol for 1min.</li><li>◦ 0.3% H<sub>2</sub>O<sub>2</sub> in 95% ethanol for 5min to block endogenous peroxidase.</li><li>◦ 70% ethanol for 1min.</li><li>◦ 50% ethanol for 1min.</li><li>◦ distilled H<sub>2</sub>O for 2min.</li></ul></li><li>• Antigen Retrieval by Heat Induced Epitope Retrieval (HIER):<ul style="list-style-type: none"><li>◦ Boil the sections in Lab Vision Citrate buffer pH6.0 (ThermoFisher Scientific, TA-250-PM1X) for 4min at 125°C in a decloaking chamber (Biocare Medical).</li><li>◦ Allow slides to cool down to 90°C in the decloaking chamber.</li></ul></li><li>• Immunostaining in a Lab Vision Autostainer 480 (ThermoFisher Scientific) at RT with 300µl of reagents for each step:<ul style="list-style-type: none"><li>◦ Rinse sections in Lab Vision wash buffer with extra tween added to a final concentration of 0.2% (ThermoFisher Scientific, TA-999-TT and TA-125-TW) wash buffer.</li><li>◦ Block sections with Lab Vision Ultra V-Block (ThermoFisher Scientific, TA-125-UB) for 5min.</li><li>◦ Rinse sections 2x in wash buffer.</li><li>◦ Incubate sections with primary rabbit anti-MADCAM1 antibody (antibodies-online, ABIN3044076) diluted 1:900 for 30min.</li></ul></li></ul>

- Rinse sections 3x in wash buffer.
- Incubate sections with labeled HRP polymer (ThermoFisher Scientific, TL-125-PH) for 30min.
- Rinse sections 2x in wash buffer.
- Develop in DAB Quanto solution (ThermoFisher Scientific, TL-125-QHDX) for 5min.
- Rinse sections in distilled H<sub>2</sub>O.
- Washing, counterstaining, and coverslipping in Autostainer XL (Leica Biosystems, ST5010) at RT:
  - Counterstaining in Mayer's hematoxylin plus (HistoLab, 01820) for 7.5min.
  - Rinse sections in tap water for 5min.
  - Rinse sections in lithium carbonate water diluted 1:5 for 5min.
  - Dehydration in graded ethanol series and Neo-Clear (Merck Millipore, 109843) according to the manufacturer recommendations.
  - Automated mounting (Leica Biosystems, CV5030) of coverslip with Pertex (Histolab, 00871).
- Microscopy:
  - Image acquisition on a Leica Aperio AT2 and Aperio Scanscope AT at 20x magnification.

Experimental Notes: ABIN3044076 shows nice staining in a subset of vessels (endothelial cells), present in intestine and spleen.

### Image for Validation report #300031



**Validation image no. 1 for anti-Mucosal Vascular Addressin Cell Adhesion Molecule 1 (MADCAM1) (AA 173-190), (Middle Region) antibody (ABIN3044076)**

Staining of human colon (A.) and spleen (B.) sections in a tissue microarray with ABIN3044076. See the protocol for detailed information.