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MAdCAM-1 Antibody (clone 314G8, Low Endotoxin)

Mouse Monoclonal Antibody
Catalog # ALS12759

Specification

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - Product Information

Application	**WB, IHC-P, E, FC**
Primary Accession	Q13477
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**40kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A** **FC~~1:10~50**

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - Additional Information

Gene ID 8174

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

Target/Specificity
Recognizes human mucosal addressin cell adhesion molecule 1 (MAdCAM-1), a 60kD cell surface protein that is involved in lymphocyte trafficking. MAdCAM-1 is expressed on high endothelial venules of Peyers patches and mesenteric lymph nodes. MAdCAM-1 e ...

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles. Store undiluted.

Precautions
MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) is for research use only and not for use in diagnostic or therapeutic procedures.

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - 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.

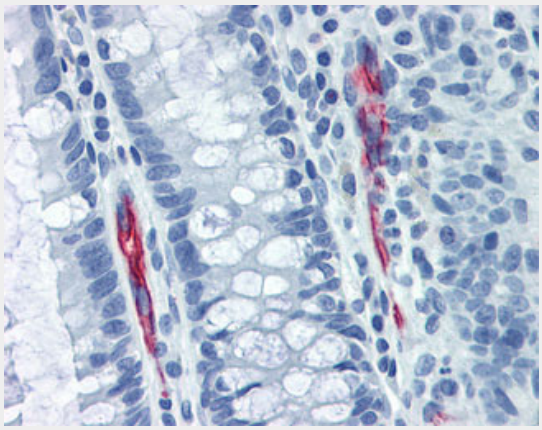
Tissue Location
Highly expressed on high endothelial venules (HEV) and lamina propia venules found in the small intestine, and to a lesser extent in the colon and spleen. Very low levels of expression found in pancreas and brain. Not expressed in the thymus, prostate, ovaries, testis, heart, placenta, lung, liver, skeletal muscle, kidney or peripheral blood leukocytes.

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - Protocols

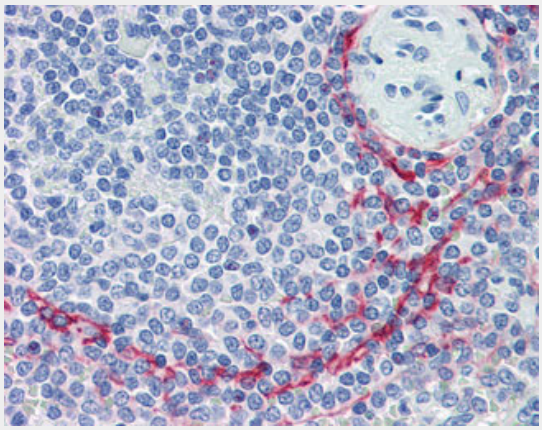
Provided below are standard protocols that you may find useful for product applications.

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

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - Images



Anti-MADCAM1 antibody IHC of human colon.



Anti-MADCAM1 antibody IHC of human spleen.

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MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - Background

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.

MAdCAM-1 Antibody (clone 314G8, Low Endotoxin) - References

Leung E.,et al.Immunol. Cell Biol. 74:490-496(1996).
Shyjan A.M.,et al.J. Immunol. 156:2851-2857(1996).
Leung E.,et al.Immunogenetics 46:111-119(1997).
Wang P.Z.,et al.Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.
Grimwood J.,et al.Nature 428:529-535(2004).