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MAdCAM-1 Rabbit pAb

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Catalog # AP94697

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O70540
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42507
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat MAdCAM-1
Epitope Specificity	151-250/394
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
SIMILARITY	Contains 2 Ig-like (immunoglobulin-like) domains.
SUBUNIT	Contains 2 Ig-like (immunoglobulin-like) domains.
Post-translational modifications	The Ser/Thr-rich mucin-like domain may provide possible sites for O-glycosylation (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The recirculation of lymphocytes through different organs is thought to be regulated by adhesion molecules recognizing tissue-specific vascular addressins on the endothelium. The mucosal vascular addressin, MadCAM-1 (mucosal addressin cell adhesion molecule 1), is an immunoglobulin superfamily adhesion molecule for lymphocytes that is expressed by mucosal venules and helps direct lymphocyte traffic into Peyer's patches and the intestinal lamina propria. MadCAM-1 acts as an endothelial cell ligand for leukocyte homing receptors L-Selectin and Integrin Alpha 4/Beta 7. MadCAM-1 is strongly expressed on inflamed portal vein/sinusoidal endothelium in autoimmune-mediated liver disease and plays a major contributory role in the progression of chronic experimental autoimmune encephalomyelitis.

Additional Information

Gene ID	54266
Other Names	Mucosal addressin cell adhesion molecule 1, MAdCAM-1, rMAdCAM-1, Madcam1
Target/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.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 the integrin alpha-4/beta-7 and L-selectin, regulating both the passage and retention of leukocytes (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Detected in Peyer patches and mesenteric lymph nodes but not in spleen

Background

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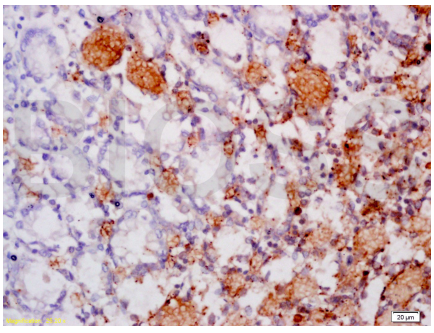
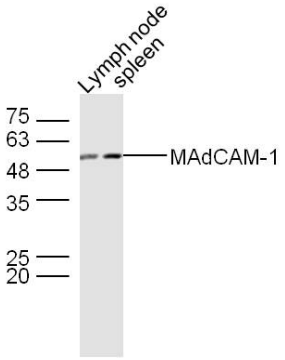
Images



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-MAdCAM-1 Polyclonal Antibody, Unconjugated(AP94697) 1:200, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample: Lymph node (Mouse) Lysate at 30 ug Spleen (Mouse) Lysate at 30 ug Primary: Anti- MAdCAM-1 (AP94697) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 50 kD

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