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MADCAM1 Rabbit pAb

Catalog # AP97032

Product Information

Application	WB
Primary Accession	Q61826
Other Accession	Q61826
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43652
Physical State	Liquid
Immunogen	Recombinant mouse MADCAM1 protein
Epitope Specificity	22-364/405
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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

Other Names	MACAM1; MAdCAM-1; MADCA_HUMAN; MADCAM1; hMAdCAM-1; MADCA_MOUSE; mMAdCAM-1; MADCA_RAT; rMAdCAM-1; mucosal vascular addressin cell adhesion molecule 1; mucosal addressin cell adhesion molecule-1
Dilution	WB=1:500-2000
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. Both isoform 1 and isoform 2 can adhere to integrin alpha-4/beta-7. 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) of organized intestinal lymphoid tissues like the Peyer patches and mesenteric lymph nodes, and in the lamina propria of the intestine Some expression found in the spleen, and low levels of expression in the peripheral lymph nodes and the lactating mammary gland. No expression was detected in the liver, kidneys, lungs or in normal brain. Expressed as well in brain endothelioma cells, and mucosal tissues which are in a chronic state of inflammation, such as inflamed pancreas.

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