Mouse anti MAdCAM1 Monoclonal Antibody

Alternative Name(s): MACAM1,MAdCAM-1, hMAdCAM-1, mucosal addressin cell adhesion molecule 1, mucosal addressin cell adhesion molecule-1

Order Information

- **Description:** MAdCAM1
- **Catalogue:** 606-010
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 355G8
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein MadCAM1

BACKGROUND

The MAdCAM1 mucosal vascular cell adhesion molecule 1 also known as addressin is an endothelial cell adhesion molecule that interacts preferentially with the leukocyte beta7 integrin LPAM-1 (alpha4beta7), L-selectin, and VLA-4 (alpha4beta1) on myeloid cells to direct leukocytes into mucosal and inflamed tissues. It is a member of the immunoglobulin family and is similar to ICAM1 and VCAM1. MADCAM1 is selectively expressed on mucosal endothelial cells, driving memory T-cell re-circulation through mucosal tissues. It was shown recently that MAdCAM1 was also selectively expressed on α-smooth muscle actin-positive reticular framework between white pulp and the marginal zone in the human spleen. The reticular framework may function in lymphocyte homing and segregation into the periarteriolar lymphoid sheath, lymph follicle and marginal zone. Other studies confirm that MAdCAM-1 is up-regulated in cirrhosis with expression on endothelium of the peribiliary vascular plexus and lymphoid aggregates.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human MAdCAM1 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 43.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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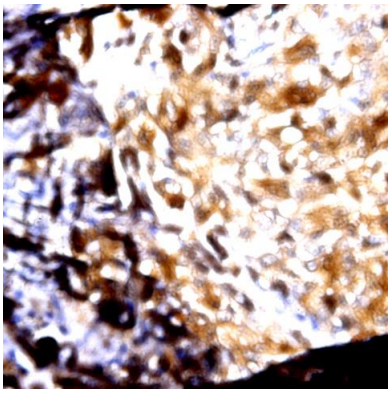
DATA ATTACHMENTS



Immunohistochemistry: Human melanoma (FFPE) stained with Mouse anti-MAdCAM1 antibody (Cat# 606-010) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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