

Mouse MAdCAM-1 Alexa Fluor® 750-conjugated Antibody

Monoclonal Rat IgG₁ Clone # 200530 Catalog Number: FAB9931S

| DESCRIPTION | | |
|--------------------|---|--|
| Species Reactivity | Mouse | |
| Specificity | Detects human and mouse MAdCAM-1 in ELISAs. | |
| Source | Monoclonal Rat IgG ₁ Clone # 200530 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse MAdCAM-1 Gln22-Thr365 (predicted) Accession # NP_038619 | |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm | |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | |

| APPLICATIONS | | | | |
|---|--|--|--|--|
| Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. | | | | |
| ELISA Capture (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. | | | |
| ELISA Detection (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. | | | |

| PREPARATION AND STORAGE | | |
|-------------------------|---|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied | |

BACKGROUND

Mucosal addressin cell adhesion molecule-1 (MAdCAM-1) is an immunoglobulin (Ig) cell adhesion molecule family member. In addition to Ig domains, it contains a mucin-like domain and a membrane proximal domain with similarity to IgA. MAdCAM-1 is involved in lymphocyte homing to mucosal sites and is expressed on high endothelial venules (HEV) of both mesenteric lymph nodes and Peyer's patches. It has also been found to be expressed on sinus-lining cells of the spleen. The integrin, α₄β₇, has been shown to function as the MAdCAM-1 receptor. The Ig domains of MAdCAM-1 have been found to be critical to α₄β₇ binding. The mucin domain has been shown to have activity in L-Selectin binding. MAdCAM-1 expression has been demonstrated to be up-regulated by TNF-α and IL-1β. MAdCAM-1 appears to play a role in inflammatory bowel disease (IBD) as its expression is highly up-regulated in IBD and most likely serves to recruit α₄β₇-expressing lymphocytes to the region. In vivo studies involving nonobese diabetic (NOD) mice have also suggested that MAdCAM-1/α₄β₇ interaction plays a role in diabetes development in this model. Mouse MAdCAM-1 is a 405 amino acid (aa) residue protein with a 21 aa signal sequence, a 344 aa extracellular domain, a 20 aa transmembrane domain and a 20 aa cytoplasmic domain.

PRODUCT SPECIFIC NOTICES

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