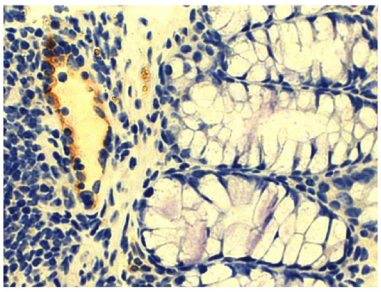
SouthernBiotech

Rat Anti-Mouse MAdCAM-1

Cat. No.	Format	Size
1865-01	Purified (UNLB)	0.5 mg
1865-02	Fluorescein (FITC)	0.5 mg
1865-08	Biotin (BIOT)	0.5 mg
1865-14	Low Endotoxin, Azide-Free (LE-AF)	0.5 mg



Paraffin embedded mouse intestine section was stained with Rat Anti-Mouse MAdCAM-1-UNLB (SB Cat. No. 1865-01) followed by an HRP conjugated secondary antibody, DAB, and hematoxylin.

Overview

Clone	MECA-367
Isotype	Rat (Wistar) $IgG_{2a}\kappa$
Immunogen	Endothelial cells isolated from BALB/c mesenteric and peripheral lymph nodes
Specificity	Mouse MAdCAM; Mr 58-66 kDa
Alternate Name(s)	Mucosal addressin cell adhesion molecule-1

Description

Mucosal addressin cell adhesion molecule-1 (MAdCAM-1) is a type I transmembrane glycoprotein expressed at high levels on high endothelial venules (HEV) of Peyer's patches and mesenteric lymph nodes and on flat-walled venules within the gut lamina propria. It is also expressed on sinus-lining cells in the spleen. The countereceptor or "homing receptor" for MAdCAM-1 is $\alpha_4\beta_7$ integrin, also known as LPAM-1. MAdCAM-1 is also a facultative ligand for CD62L (L-selectin). The monoclonal antibody MECA-367 binds to the first domain of MAdCAM-1 and blocks MAdCAM-1-dependent binding *in vitro* and lymphocyte homing to Peyer's patch HEV *in vivo*.

Applications

FC – Quality tested
IHC-PS – Quality tested
IHC-FS – Reported in literature [1,3-7]
IP – Reported in literature [2]
WB – Reported in literature [1]
Block – Reported in literature [1]
Purification – Reported in literature [1]

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	$\leq 1\ \mu g/10^6$ cells
	FITC and BIOT conjugates	$\leq 1\ \mu g/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

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3. Ozaki K, Spolski R, Ettinger R, Kim H, Wang G, Qi C, et al. Regulation of B cell differentiation and plasma cell generation by IL-21, a novel inducer of Blimp-1 and Bcl-6. J Immunol. 2004;173:5361-71. (IHC-FS)
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6. Leonard WJ, Lipsky P, Morse HC 3rd, Ettinger CR, Spolski R, inventors; The United States of America as represented by the Department of Health and Human Services. Method of inducing memory B cell development and terminal differentiation. United States patent US 7,993,919 B2. 2011 Aug 9. (IHC-FS)
7. Song J, Lokmic Z, Lämmermann T, Rolf J, Wu C, Zhang X, et al. Extracellular matrix of secondary lymphoid organs impacts on B-cell fate and survival. Proc Natl Acad Sci USA. 2013;110(31):E2915-24. (IHC-FS)
8. Ardelean DS, Yin M, Jerkic M, Peter M, Ngan B, Kerbel RS, et al. Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis. Angiogenesis. 2014;17:641-59.

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