

Datasheet: MCA2321

Description:	MOUSE ANTI HUMAN MAdCAM-1
Specificity:	MAdCAM-1
Other names:	MUCOSAL ADDRESSIN CELL ADHESION MOLECULE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	17F5
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			1/50 - 1/100
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting (1)	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using the appropriate negative/positive controls.

(1) **Clone 17F5 recognizes human MAdCAM-1 under non-reducing conditions.**

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Camel</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

	supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant soluble MAdCAM-1-fc fusion protein.
External Database Links	<p>UniProt: Q13477 Related reagents</p> <p>Entrez Gene: 8174 MADCAM1 Related reagents</p>
RRID	AB_567121
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.
Specificity	Mouse anti Human MAdCAM-1 antibody, clone 17F5 recognizes human mucosal addressin cell adhesion molecule 1 (MAdCAM-1) a ~60 kDa transmembrane protein that belongs to the immunoglobulin superfamily. MAdCAM-1 is strongly expressed on mucosal lymphoid tissue and high endothelial venules of Peyer's patches. Human MAdCAM-1 interacts with the beta 7 integrin LPAM-1 (alpha4beta7), CD62L, and VLA-4 (alpha4beta1) and is involved in lymphocyte trafficking, Mouse anti Human MAdCAM-1 antibody, clone 17F5 recognizes the mucin domain of MAdCAM-1. This antibody does not block the function of MAdCAM-1 (Leung, E. et al. 2004).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Immunohistology	This product does not require protein digestion prior to staining. This product does not require HIER prior to staining.
Western Blotting	MCA2321 detects a band of approximately 60kDa.
References	<ol style="list-style-type: none"> 1. Leung, E. <i>et al.</i> (1996) Cloning of the mucosal addressin MAdCAM-1 from human brain: identification of novel alternatively spliced transcripts. Immunol Cell Biol. 74 (6): 490-6. 2. Leung, E. <i>et al.</i> (2004) Bioassay detects soluble MAdCAM-1 in body fluids. Immunol Cell Biol. 82 (4): 400-9. 3. Al-Mohammed Salem, K.T. <i>et al.</i> (2012) Adhesion Molecules and the Cellular Population of the Normal Camel (<i>Camelus dromedaries</i>) Mammary Glands The Open Veterinary Science Journal. 6 (1): 15-22.

4. Guerra-Pérez N *et al.* (2015) Retinoic acid imprints a mucosal-like phenotype on dendritic cells with an increased ability to fuel HIV-1 infection. [J Immunol. 194 \(5\): 2415-23.](#)
5. Loiseau, C. *et al.* (2016) CCR6(-) regulatory T cells blunt the restoration of gut Th17 cells along the CCR6-CCL20 axis in treated HIV-1-infected individuals. [Mucosal Immunol. 9 \(5\): 1137-50.](#)

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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