

Datasheet: MCA2321

**BATCH NUMBER 148410**

<b>Description:</b>	MOUSE ANTI HUMAN MAdCAM-1
<b>Specificity:</b>	MAdCAM-1
<b>Other names:</b>	MUCOSAL ADDRESSIN CELL ADHESION MOLECULE-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	17F5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Camel</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant soluble MAdCAM-1-fc fusion protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13477</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">8174</a>    MADCAM1    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_567121
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human MAdCAM-1 antibody, clone 17F5</b> 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 ( <a href="#">Leung, E. et al. 2004</a> ).
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>Immunohistology</b>	This product does not require protein digestion prior to staining. This product does not require HIER prior to staining.
<b>Western Blotting</b>	MCA2321 detects a band of approximately 60kDa.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Leung, E. <i>et al.</i> (1996) Cloning of the mucosal addressin MAdCAM-1 from human brain: identification of novel alternatively spliced transcripts. <a href="#">Immunol Cell Biol. 74 (6): 490-6.</a></li> <li>2. Leung, E. <i>et al.</i> (2004) Bioassay detects soluble MAdCAM-1 in body fluids. <a href="#">Immunol Cell Biol. 82 (4): 400-9.</a></li> <li>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 <a href="#">The Open</a></li> </ol>

[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.](#)

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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2321">https://www.bio-rad-antibodies.com/SDS/MCA2321</a> 10040
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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