

## Datasheet: MCA2320T

<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>	314G8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 µg

## 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	▪			1/25 - 1/200
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<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 (NaN <sub>3</sub> )
<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_2281548
<b>Fusion Partners</b>	Spleen cells from immunised 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 314G8</b> recognizes human mucosal addressin cell adhesion molecule 1 (MAdCAM-1) a 60kD cell surface protein that is involved in lymphocyte trafficking. MAdCAM-1 is expressed on high endothelial venules of Peyer's patches and mesenteric lymph nodes. MAdCAM-1 expression has also been reported in the gut lamina propria but clone 314G8 does not recognize MAdCAM-1 in these tissues. Clone 314G8 reacts with the ligand-binding first Ig domain and reports suggest that a splice variant exists in the gut which is not recognized by clone 314G8. Clone 314G8 is reported to block the interaction of MAdCAM-1 with alpha 4 beta 7 ( <a href="#">Leung et al. 2004</a> ).
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<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. Olloquequi, J. <i>et al.</i> (2011) Significant increase of CD57+ cells in pulmonary lymphoid follicles of COPD patients. <a href="#">Eur Respir J. 37 (2): 289-98.</a></li> <li>4. Guerra-Pérez, N. <i>et al.</i> (2015) Retinoic Acid Imprints a Mucosal-like Phenotype on Dendritic Cells with an Increased Ability To Fuel HIV-1 Infection. <a href="#">J Immunol. pii: 1402623.</a></li> <li>5. Goode, D. <i>et al.</i> (2014) Sex hormones selectively impact the endocervical mucosal microenvironment: implications for HIV transmission. <a href="#">PLoS One. 9 (5): e97767.</a></li> <li>6. Guzzo, C. <i>et al.</i> (2017) Virion incorporation of integrin α4β7 facilitates HIV-1 infection and intestinal homing. <a href="#">Sci Immunol. 2 (11) [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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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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