

Datasheet: MCA2320B

Description:	MOUSE ANTI HUMAN MAdCAM-1:Biotin
Specificity:	MAdCAM-1
Other names:	MUCOSAL ADDRESSIN CELL ADHESION MOLECULE-1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	314G8
Isotype:	IgG1
Quantity:	0.1 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
ELISA	▪			1ug/ml - 10ug/ml

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.

Target Species	Human
Product Form	Purified IgG conjugated to biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Recombinant soluble MAdCAM-1-fc fusion protein.

**External Database
Links**

UniProt:

[Q13477](#) [Related reagents](#)

Entrez Gene:

[8174](#) MADCAM1 [Related reagents](#)

RRID AB_567118

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.

Specificity **Mouse anti Human MAdCAM-1 antibody, clone 314G8** 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 ([Leung et al. 2004](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References

1. Leung, E. *et al.* (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. *et al.* (2004) Bioassay detects soluble MAdCAM-1 in body fluids. [Immunol Cell Biol. 82 \(4\): 400-9.](#)
3. Olloquequi, J. *et al.* (2011) Significant increase of CD57+ cells in pulmonary lymphoid follicles of COPD patients. [Eur Respir J. 37 \(2\): 289-98.](#)
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. pii: 1402623.](#)
5. Goode, D. *et al.* (2014) Sex hormones selectively impact the endocervical mucosal microenvironment: implications for HIV transmission. [PLoS One. 9 \(5\): e97767.](#)
6. Guzzo, C. *et al.* (2017) Virion incorporation of integrin α4β7 facilitates HIV-1 infection and intestinal homing. [Sci Immunol. 2 \(11\) \[Epub ahead of print\].](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

**Health And Safety
Information** Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2320B>

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Regulatory

For research purposes only

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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

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