

Datasheet: MCA2320

Description:	MOUSE ANTI HUMAN MAdCAM-1
Specificity:	MAdCAM-1
Other names:	MUCOSAL ADDRESSIN CELL ADHESION MOLECULE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	314G8
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
Immunohistology - Frozen	■			1/25 - 1/200
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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	UniProt:

Entrez Gene:

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

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 <i>et al.</i> 2004).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	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. Olloqueui, J. <i>et al.</i> (2011) Significant increase of CD57+ cells in pulmonary lymphoid follicles of COPD patients. Eur Respir J. 37 (2): 289-98. 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. J Immunol. pii: 1402623. 5. Goode, D. <i>et al.</i> (2014) Sex hormones selectively impact the endocervical mucosal microenvironment: implications for HIV transmission. PLoS One. 9 (5): e97767. 6. Guzzo, C. <i>et al.</i> (2017) Virion incorporation of integrin $\alpha 4 \beta 7$ facilitates HIV-1 infection and intestinal homing. Sci Immunol. 2 (11) [Epub ahead of print].
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.
Shelf Life	18 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 (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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