

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	Reacts with: Camel N.B. Antibody reactivity and working conditions may vary between species.
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	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Recombinant soluble MAdCAM-1-fc fusion protein.

External Database Links

UniProt:

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

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 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. 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

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. Al-Mohammed Salem, K.T. *et al.* (2012) Adhesion Molecules and the Cellular Population of the Normal Camel (*Camelus dromedaries*) 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.

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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , 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

Recommended Negative Controls

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

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