Datasheet: MCA2270T

Description:	MOUSE ANTI HUMAN CD321
Specificity:	CD321
Other names:	JAM-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M.Ab.F11
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

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 - liquid
Preparation	Antibody purified from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN_3)
Approx. Protein	IgG concentration 0.5 mg/ml

Concentrations	
Immunogen	Human platelet membranes.
External Database Links	**UniProt:** Q9Y624 Related reagents **Entrez Gene:** 50848 F11R Related reagents
Synonyms	JAM1, JCAM
RRID	AB_2100572
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	**Mouse anti Human CD321 antibody, clone F11** recognizes human Junctional adhesion molecule A, also known as CD321, JAM-1, JAM-A, Platelet F11 receptor, Platelet adhesion molecule 1 or PAM-1. CD321 is a 272 amino acid ~35 kDa single pass type 1 transmembrane glycoprotein expressed by endothelium, epithelial tissues and some leukocytes (Ostermann *et al.* 2002). CD321 was originally identified as the F11 receptor expressed on platelets (Kornecki *et al.* 1990). Mouse anti Human CD321 antibody, clone F11 is able to activate platelets, leading to aggregation and granule secretion (Kornecki *et al.* 1990, Naik *et al.* 1995).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl
Western Blotting	Mouse anti Human CD321antibody, clone M.Ab.F11 detects a band of approximately 35-40 kDa in platelet cell lysates.
References	1. Sobocka, M.B. *et al.* (2000) Cloning of the human platelet F11 receptor: a cell adhesion molecule member of the immunoglobulin superfamily involved in platelet aggregation. Blood. 95 (8): 2600-9. 2. Fraemohs, L. *et al.* (2004) The functional interaction of the beta 2 integrin lymphocyte function-associated antigen-1 with junctional adhesion molecule-A is mediated by the I domain. J Immunol. 173 (10): 6259-64. 3. Immenschuh, S. *et al.* (2009) Transcriptional induction of junctional adhesion molecule-C gene expression in activated T cells. J Leukoc Biol. 85 (5): 796-803. 4. Haarmann, A. *et al.* (2010) Evaluation of soluble junctional adhesion molecule-A as a biomarker of human brain endothelial barrier breakdown. PLoS One. 5 (10): e13568.
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 #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 (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)

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

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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