

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 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 appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Human platelet membranes.
External Database Links	UniProt: Q9Y624 Related reagents

Entrez Gene:[50848](#) F11R [Related reagents](#)

Synonyms	JAM1, JCAM
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Human CD321 antibody, clone F11 recognises 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 <i>et al.</i> 2002). CD321 was originally identified as the F11 receptor expressed on platelets (Kornecki <i>et al.</i> 1990). Mouse anti Human CD321 antibody, clone F11 is able to activate platelets, leading to aggregation and granule secretion (Kornecki <i>et al.</i> 1990, Naik <i>et al.</i> 1995).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ml
Western Blotting	MCA2270 detects a band of approximately 35-40kDa in platelet cell lysates.
References	1. Kornecki, E. <i>et al.</i> (1990) Activation of human platelets by a stimulatory monoclonal antibody. J Biol Chem. 265 (17): 10042-8. 2. Sobocka, M.B. <i>et al.</i> (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. 3. Immenschuh, S. <i>et al.</i> (2009) Transcriptional induction of junctional adhesion molecule-C gene expression in activated T cells. J Leukoc Biol. 85 (5): 796-803. 4. Fraemohs, L. <i>et al.</i> (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. 5. Haarmann, A. <i>et al.</i> (2010) Evaluation of soluble junctional adhesion molecule-A as a biomarker of human brain endothelial barrier breakdown. PLoS One. 5 (10): e13568.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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 \(MCA928\)](#)

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