

Datasheet: MCA2270

Description:	MOUSE ANTI HUMAN CD321
Specificity:	CD321
Other names:	JAM-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M.Ab.F11
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 - 1/50
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting	■			1/100 - 1/1000
Immunofluorescence	■			
Functional Assays (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 appropriate negative/positive controls.

(1) **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays. Dialysis cassettes [EQU003](#) are suitable for this purpose.**

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 *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 10ul of the suggested working dilution to label 10⁶ cells in 100ml

Western Blotting

MCA2270 detects a band of approximately 35-40kDa in platelet cell lysates.

References

1. Kornecki, E. *et al.* (1990) Activation of human platelets by a stimulatory monoclonal antibody. [J Biol Chem. 265 \(17\): 10042-8.](#)
2. 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.](#)
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. 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.](#)
5. 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

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 \(MCA928\)](#)

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
----------------------------------	---	------------------	---	---------------	---

'M317357:180625'

Printed on 25 Jun 2018