Datasheet: MCA2270 BATCH NUMBER 170614

Description:	MOUSE ANTI HUMAN CD321
Specificity:	CD321
Other names:	JAM-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M.Ab.F11
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u>.

		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 necessarily exclude its use in such procedures. Suggested working diluti a guide only. It is recommended that the user titrates the antibody for use system using appropriate negative/positive controls. (1) This product contains sodium azide, removal by dialysis is recor to use in functional assays. Dialysis cassettes <u>EQU003</u> are suitable purpose.				nique this does not g dilutions are given as for use in their own recommended prior litable for this
Target Species	Human				
Product Form	Purified IgG - liquid				
Buffer Solution	Phosphate buffered salin	е			

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
RRID	AB_324422
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 (<u>Ostermann <i>et al.</i> 2002</u>). CD321 was originally identified as the F11 receptor expressed on platelets (<u>Kornecki <i>et al.</i> 1990</u>).
	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	 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. 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. 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. 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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2270 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (STAR70)	FITC		
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 (STAR9)	FITC		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
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MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366494:200529'

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