

Datasheet: MCA2141F BATCH NUMBER 165672

Description:	MOUSE ANTI HUMAN CD146:FITC		
Specificity:	CD146		
Other names:	MUC18		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	OJ79c		
Isotype:	lgG1		
Quantity:	0.1 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 Dilut					
	Flow Cytometry	•		Neat - 1/10		
	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					
Species Cross	Reacts with: Pig, Dog					
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	FITC	490	525			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Recombinant human MUC18 (D1-D5) Fc protein.		
External Database Links	UniProt: <u>P43121</u> <u>Related reagents</u> Entrez Gene: <u>4162</u> MCAM <u>Related reagents</u>		
Synonyms	MUC18		
RRID	AB_324069		
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse Sp2/0 Ag.14 myeloma cell line.		
Specificity	 Mouse anti Human CD146 antibody, clone OJ79c recognizes human Cell surface glycoprotein MUC18, also known as CD146, Cell surface glycoprotein P1H12, Melanoma cell adhesion molecule (MCAM) or S-endo 1 endothelial-associated antigen. CD146 is a 646 amino acid single pass type 1 transmembrane glycoprotein with a calculated molecular mass of ~72 kDa. However due to extensive N-linked glycosylation CD146 migrates in polyacrylamide gels with an apparent molecular mass of ~118 kDa. CD146 is a member of the immunoglobulin superfamily bearing 2 V-type Ig-like and 3 C-type Ig-like domains. CD146 is expressed by all endothelial cells and by melanoma cells and appears to act as an adhesion molecule (UniProt: P43121). Expression in melanoma may be linked to tumor progression (Lehmann <i>et al.</i> 1989). Mouse anti Human CD146 antibody, clone OJ79c is highly expressed on pericytes and has been utilized for the identification of perivascular mesenchymal precursor cells from 		
Flow Cytometry	cardiac muscle using flow cytometry (<u>Chen <i>et al.</i> 2014</u>). Use 10μl of the suggested working dilution to label 10 ⁶ cells in 100μl		
References	 Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</u> Crisan, M. <i>et al.</i> (2008) A perivascular origin for mesenchymal stem cells in multiple human organs. <u>Cell Stem Cell. 3: 301-13.</u> Iohara, K. <i>et al.</i> (2008) A novel stem cell source for vasculogenesis in ischemia: subfraction of side population cells from dental pulp. <u>Stem Cells. 26 (9): 2408-18.</u> Park, T.S. <i>et al.</i> (2010) Placental Perivascular Cells for Human Muscle Regeneration. <u>Stem Cells Dev. 20: 451-63.</u> 		

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Further Reading	1. Kuzu, I. et al. (1993) Expression of adhesion molecules on the endothelium of normal
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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. This product is photosensitive and should be
	neet nee neezere is net recommended. This product is photosensitive and should be

	protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2141F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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

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