# Datasheet: MCA2141FT BATCH NUMBER 151428

Description:	MOUSE ANTI HUMAN CD146:FITC				
Specificity:	CD146				
Other names:	MUC18				
Format:	FITC				
Product Type:	Monoclonal Antibody				
Clone:	OJ79c				
lsotype:	lgG1				
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	Flow Cytometry	•			Neat - 1/10		
	Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrate the antibody for use in their own system using appropriate negative/positive controls.						
Target Species	Human						
Species Cross Reactivity	Reacts with: Pig, Dog <b>N.B.</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 FITC	Excitation Max (n 490	-	on Max (nm) 525			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered sa	line					

Preservative Stabilisers	0.09% Sodium Azide 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:
LIIKS	P43121 Related reagents
	Entrez Gene:
	<u>4162</u> MCAM <u>Related reagents</u>
Synonyms	MUC18
RRID	AB_2143381
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse Sp2/0 Ag.14 myeloma cell line.
Specificity	<ul> <li>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).</li> <li>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 cardiac muscle using flow cytometry (Chen <i>et al.</i> 2014).</li> </ul>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</u></li> <li>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></li> <li>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></li> <li>Park, T.S. <i>et al.</i> (2010) Placental Perivascular Cells for Human Muscle Regeneration. <u>Stem Cells Dev. 20: 451-63.</u></li> <li>Smith, K. <i>et al.</i> (2011) Mono- and tri-cationic porphyrin-monoclonal antibody conjugates:</li> </ol>

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# **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	
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		
	Email: antibody_sales_u	us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com		

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 'M366243:200529'

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