

Datasheet: MCA1747

Description:	MOUSE ANTI PIG CD31	
Specificity:	CD31	
Other names:	PECAM-1	
Format:	S/N	
Product Type:	Monoclonal Antibody	
Clone:	LCI-9	
Isotype:	IgM	
Quantity:	2 ml	

### **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			
Immunohistology - Frozen	•			
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation			•	
Western Blotting			•	

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.

Evtornal Databaso	
Immunogen	Porcine CD31/human IgGFc fusion protein.
Preservative Stabilisers	0.09% sodium azide (NaN <sub>3</sub> )
Product Form	Tissue culture supernatant - liquid
Target Species	Pig

External Database Links

**UniProt:** 

Q95242 Related reagents

## **Entrez Gene:**

396941 PECAM1 Related reagents

RRID	AB_2236793
Specificity	Mouse anti Pig CD31 antibody, clone LCI-9 recognizes porcine Platelet endothelial cell adhesion molecule, also known as CD31 or PECAM-1. Porcine CD31 is a 740 amino acid ~140 kDa single pass type 1 transmembrane glycoprotein bearing six <a href="Ig-like C2-type">Ig-like C2-type</a> domains. CD31 is expressed by various cell types, but particularly by endothelial cells where it is required for leukocyte transendothelial migration ( <a href="UniProt:Q95242">UniProt:Q95242</a> ).  Mouse anti Pig CD31 antibody, clone LCI-9 has been used successfully for recognition of porcine CD31 by flow cytometry ( <a href="Peterson et al. 2005">Peterson et al. 2005</a> ) and immunofluorescence microscopy ( <a href="Nasu et al. 1999">Nasu et al. 1999</a> ).
References	<ol> <li>Nasu, K. <i>et al.</i> (1999) Alpha-galactosyl-mediated activation of porcine endothelial cells: studies on CD31 and VE-cadherin in adhesion and signaling. Transplantation. 1999 Sep 27;68(6): 861-7.</li> <li>Peterson, M.D. <i>et al.</i> (2005) Monocyte adhesion to xenogeneic endothelium during laminar flow is dependent on alpha-Gal-mediated monocyte activation. J Immunol. 174 (12): 8072-81.</li> <li>Peterson, M.D. <i>et al.</i> (2005) Monocyte-induced endothelial calcium signaling mediates early xenogeneic endothelial activation. Am J Transplant. 5: 237-47.</li> <li>Harrower, T.P. <i>et al.</i> (2006) Long-term survival and integration of porcine expanded neural precursor cell grafts in a rat model of Parkinson's disease. Exp Neurol. 197: 56-69.</li> <li>Al-Shalmani, S. <i>et al.</i> (2011) Quercetin and its principal metabolites, but not myricetin, oppose lipopolysaccharide-induced hyporesponsiveness of the porcine isolated coronary artery. Br J Pharmacol. 162: 1485-97.</li> <li>Zhao, Y. <i>et al.</i> (2020) Low-Energy Shockwave Treatment Promotes Endothelial Progenitor Cell Homing to the Stenotic Pig Kidney. Cell Transplant. 29: 963689720917342.</li> </ol>
Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39: 54.
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10053 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1747">https://www.bio-rad-antibodies.com/SDS/MCA1747</a> 10053

# **Related Products**

## **Recommended Secondary Antibodies**

Goat Anti Mouse IgM (STAR138...) Alk. Phos.

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

**Recommended Negative Controls** 

MOUSE IgM NEGATIVE CONTROL (MCA692)

North & South Tel: +1 800 265 7376 Worldwide
America Fax: +1 919 878 3751

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 **Europe** 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 'M418595:230427'

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