

Datasheet: MCA1747

**BATCH NUMBER 174271**

<b>Description:</b>	MOUSE ANTI PIG CD31
<b>Specificity:</b>	CD31
<b>Other names:</b>	PECAM-1
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LCI-9
<b>Isotype:</b>	IgM
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	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.

<b>Target Species</b>	Pig
<b>Product Form</b>	Tissue culture supernatant - liquid
<b>Preparation</b>	Tissue Culture Supernatant containing 5-10% foetal calf serum.
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Porcine CD31/human IgGFc fusion protein.

**External Database  
Links**

**UniProt:**

[Q95242](#)    [Related reagents](#)

**Entrez Gene:**

[396941](#)    PECAM1    [Related reagents](#)

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**RRID**

AB\_2236793

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**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 [Ig-like C2-type](#) domains. CD31 is expressed by various cell types, but particularly by endothelial cells where it is required for leukocyte transendothelial migration ([UniProt:Q95242](#)).

Mouse anti Pig CD31 antibody, clone LCI-9 has been used successfully for recognition of porcine CD31 by flow cytometry ([Peterson \*et al.\* 2005](#)) and immunofluorescence microscopy ([Nasu \*et al.\* 1999](#)).

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**References**

1. Nasu, K. *et al.* (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.](#)
2. Peterson, M.D. *et al.* (2005) Monocyte adhesion to xenogeneic endothelium during laminar flow is dependent on alpha-Gal-mediated monocyte activation. [J Immunol. 174 \(12\): 8072-81.](#)
3. Peterson, M.D. *et al.* (2005) Monocyte-induced endothelial calcium signaling mediates early xenogeneic endothelial activation. [Am J Transplant. 5: 237-47.](#)
4. Harrower, T.P. *et al.* (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.](#)
5. Al-Shalmani, S. *et al.* (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.](#)
6. Zhao, Y. *et al.* (2020) Low-Energy Shockwave Treatment Promotes Endothelial Progenitor Cell Homing to the Stenotic Pig Kidney. [Cell Transplant. 29: 963689720917342.](#)

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**Further Reading**

1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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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.

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**Guarantee**

12 months from date of despatch

**Health And Safety Information**      Material Safety Datasheet documentation #10053 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1747>

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**Regulatory**                      For research purposes only

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## 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 \(MCA692\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M451010:260622'

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