

## Datasheet: MCA1747

<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>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](https://www.uniprot.org/entry/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. 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.](#)
  2. 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.](#)
  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.](#)

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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

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

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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.](#)  
Human Anti Mouse IgM (HCA040...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)  
'M411323:221102'

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