

Datasheet: MCA1747

BATCH NUMBER 172250

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 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.

Target Species	Pig
Product Form	Tissue culture supernatant - liquid
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Immunogen	Porcine CD31/human IgGFc fusion protein.
External Database Links	UniProt:

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 [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.](#)

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: <https://www.bio-rad-antibodies.com/SDS/MCA1747>

Regulatory

For research purposes only

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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