

# Datasheet: MCA1747

**BATCH NUMBER 149029**

<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 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 titrates the antibody 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
<b>Immunogen</b>	Porcine CD31/human IgGFc fusion protein.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q95242</a> <a href="#">Related reagents</a>

**Entrez Gene:**[396941](#) PECAM1 [Related reagents](#)

RRID	AB_2236793
Specificity	<p><b>Mouse anti Pig CD31 antibody, clone LCI-9</b> 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</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</a>).</p> <p>Mouse anti Pig CD31 antibody, clone LCI-9 has been used successfully for recognition of porcine CD31 by flow cytometry (<a href="#">Peterson <i>et al.</i> 2005</a>) and immunofluorescence microscopy (<a href="#">Nasu <i>et al.</i> 1999</a>).</p>
References	<ol style="list-style-type: none"><li>1. Peterson, M.D. <i>et al.</i> (2005) Monocyte adhesion to xenogeneic endothelium during laminar flow is dependent on alpha-Gal-mediated monocyte activation. <a href="#">J Immunol. 174 (12): 8072-81.</a></li><li>2. 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. <a href="#">Transplantation. 1999 Sep 27;68(6): 861-7.</a></li><li>3. Peterson, M.D. <i>et al.</i> (2005) Monocyte-induced endothelial calcium signaling mediates early xenogeneic endothelial activation. <a href="#">Am J Transplant. 5: 237-47.</a></li><li>4. 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. <a href="#">Exp Neurol. 197: 56-69.</a></li><li>5. 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. <a href="#">Br J Pharmacol. 162: 1485-97.</a></li></ol>
Further Reading	<ol style="list-style-type: none"><li>1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</a></li></ol>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>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></p> <p>10053</p>
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 \(MCA692\)](#)

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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)

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