

## Datasheet: MCA1449

<b>Description:</b>	RAT ANTI PIG wCD44
<b>Specificity:</b>	wCD44
<b>Other names:</b>	H-CAM, PGP-1
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MAC329
<b>Isotype:</b>	IgG1
<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>Species Cross Reactivity</b>	Reacts with: Dog, Horse, Bovine, Goat, Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preparation</b>	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
<b>Preservative Stabilisers</b>	0.1% Sodium Azide
<b>Immunogen</b>	Purified porcine wCD44.
<b>Fusion Partners</b>	Spleen cells from immunised LOU Rats were fused with cells of the Y3.Ag1.2.3 myeloma cell line.
<b>Specificity</b>	<b>Rat anti Pig wCD44 antibody, clone MAC329</b> recognizes the porcine wCD44 cell surface antigen which is involved in cell-cell interactions, cell adhesion and migration. wCD44 is also a receptor for hyaluronic acid and can interact with other ligands, such as osteopontin, collagens, and matrix

metalloproteinases (MMPs).

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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Yang, H. <i>et al.</i> (1993) Preparation and reactivities of anti-porcine CD44 monoclonal antibodies. <a href="#">Scand J Immunol. 37 (4): 490-8.</a></li><li>2. Kasper, M. <i>et al.</i> (1996) Expression of CD44 isoforms during bleomycin-or radiation-induced pulmonary fibrosis in rats and mini-pigs. <a href="#">Histochem Cell Biol. 105 (3): 221-30.</a></li><li>3. Gyongyosi, M. <i>et al.</i> (2010) Differential effect of ischaemic preconditioning on mobilisation and recruitment of haematopoietic and mesenchymal stem cells in porcine myocardial ischaemia-reperfusion. <a href="#">Thromb Haemost. 103: 1-9.</a></li><li>4. Smith, M.M. <i>et al.</i> (2008) Significant synovial pathology in a meniscectomy model of osteoarthritis: modification by intra-articular hyaluronan therapy. <a href="#">Rheumatology (Oxford). 47:1172-8.</a></li><li>5. Sanchez, M.A. <i>et al.</i> (2004) Organ-specific immunity in canine visceral leishmaniasis: analysis of symptomatic and asymptomatic dogs naturally infected with Leishmania chagasi. <a href="#">Am J Trop Med Hyg. 70: 618-24.</a></li></ol>
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<b>Further Reading</b>	<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>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted.  Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10336 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA6004GA\)](#)

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