

## Datasheet: MCA2088GA

<b>Description:</b>	MOUSE ANTI PIG CD52
<b>Specificity:</b>	CD52
<b>Other names:</b>	SWC1a
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	K263.3D7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Pig peripheral blood mononuclear cells
<b>Specificity</b>	<p><b>Mouse anti Pig CD52, clone K263.3D7</b> is a monoclonal antibody recognizing porcine SWC1a, originally assigned at the 1st International Swine Cluster of Differentiation (CD) Workshop.</p> <p>SWC1a (CD52) is a cell surface molecule which is expressed by most leucocytes including resting T cells, monocytes and granulocytes. SWC1a is not expressed by the majority of B cells, erythrocytes or platelets (<a href="#">Leitner et al. 2012</a>). SWC1a, expressed at very much higher levels on monocytes than on mature macrophages, can be used with SWC9, expressed exclusively on mature tissue macrophages, to study intermediate stages of monocyte-macrophage differentiation (<a href="#">Sanchez et al. 1999</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Saalmüller A <i>et al.</i> (1994) Analysis of mAb reactive with the porcine SWC1. <a href="#">Vet Immunol Immunopathol. 43 (1-3): 255-8.</a></li> <li>2. Tsai, Y.C. <i>et al.</i> (2010) Porcine circovirus type 2 (PCV2) induces cell proliferation, fusion, and chemokine expression in swine monocytic cells <i>in vitro</i>. <a href="#">Vet Res. 41 (5): 60.</a></li> <li>3. Sorensen, N.S. <i>et al.</i> (2011) Enhancement of muramyl dipeptide (MDP) immunostimulatory activity by controlled multimerization on dendrimers. <a href="#">Macromol Biosci. 11 (11): 1484-90.</a></li> <li>4. Abu-El-Haija, M. <i>et al.</i> (2011) An activated immune and inflammatory response targets the pancreas of newborn pigs with cystic fibrosis. <a href="#">Pancreatology. 11 (5): 506-15.</a></li> <li>5. Weesendorp, E. <i>et al.</i> (2013) Comparative analysis of immune responses following experimental infection of pigs with European porcine reproductive and respiratory syndrome virus strains of differing virulence. <a href="#">Vet Microbiol. 163 (1-2): 1-12.</a></li> <li>6. Tsai, Y-C. <i>et al.</i> (2014) Differences in the Expression of Innate Immune Response-Modulating Genes in Blood Monocytes Between Subclinically Porcine Circovirus Type2 (PCV2)-Infected and PCV2-Free Pigs Prior to and After Lipopolysaccharide Stimulation <i>in vitro</i>. <a href="#">Taiwan Vet J. 1450005</a></li> <li>7. Nielsen, O.L. <i>et al.</i> (2022) A porcine model of subcutaneous Staphylococcus aureus infection: a pilot study. <a href="#">APMIS. 130 (7): 359-70.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. McCullough, K.C. <i>et al.</i> (1999) Intermediate stages in monocyte-macrophage differentiation modulate phenotype and susceptibility to virus infection. <a href="#">Immunology 98 (2): 203-12.</a></li> <li>2. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</a></li> </ol>
<b>Storage</b>	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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2088GA">https://www.bio-rad-antibodies.com/SDS/MCA2088GA</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<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://www.bio-rad-antibodies.com/datasheets)  
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