

## Datasheet: MCA6049GA

<b>Description:</b>	MOUSE ANTI PIG CD45RC
<b>Specificity:</b>	CD45RC
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3a56
<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	▪			Neat - 1/100

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>Specificity</b>	<b>Mouse anti Pig CD45RC, clone 3a56</b> recognizes a restricted CD45 epitope encoded by the CD45 C exon and will detect the ~210 kDa RC isoform.

CD45 in pigs has three cell surface expressed isoforms: CD45R, CD45RA, and CD45RC ([Schnitzlein and Zuckermann 1998](#)). CD45RC is mainly expressed by CD4+ T cells and weakly by B cells ([Piriou-Guzylack and Salmon 2008](#)). However, during the immune response expression of CD45RC was found to decrease in activated T-helper cells ([Saalmüller et al. 2002](#)). In contrast, increased expression of CD45RC was observed during the maturation of CD4- gamma delta thymocytes ([Sinkora et al. 2005](#)).

<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Zuckermann, F.A. <i>et al.</i> (2001) Characterization of monoclonal antibodies assigned to the CD45 subgroup of the Third International Swine CD Workshop. <a href="#">Vet Immunol Immunopathol. 80 (1-2): 165-74.</a></li> <li>2. Piriou-Guzylack, L. &amp; Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39 (6): 54.</a></li> <li>3. Schnitzlein, W.M. &amp; Zuckermann, F.A. (1998) Determination of the specificity of CD45 and CD45R monoclonal antibodies through the use of transfected hamster cells producing individual porcine CD45 isoforms. <a href="#">Vet Immunol Immunopathol. 60 (3-4): 389-401.</a></li> <li>4. Saalmüller, A. <i>et al.</i> (2002) T-helper cells from naive to committed. <a href="#">Vet Immunol Immunopathol. 87 (3-4): 137-45.</a></li> <li>5. Sinkora, M. <i>et al.</i> (2005) Development of gammadelta thymocyte subsets during prenatal and postnatal ontogeny. <a href="#">Immunology. 115 (4): 544-55.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6049GA">https://www.bio-rad-antibodies.com/SDS/MCA6049GA</a> 10040
<b>Regulatory</b>	For research purposes only

## 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 (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

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

### Recommended Useful Reagents

[MOUSE ANTI PIG CD3:FITC \(MCA5951F\)](#)  
[MOUSE ANTI PIG CD8 BETA CHAIN \(MCA5954GA\)](#)  
[MOUSE ANTI PIG CD4:FITC \(MCA6045F\)](#)  
[MOUSE ANTI PIG CD5:FITC \(MCA2307F\)](#)

<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)  
'M385310:210513'

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