

## 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

**Specificity** **Mouse anti Pig CD45RC, clone 3a56** 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 ([Saalmuller et al. 2002](#)). In contrast, increased expression of CD45RC was observed during the maturation of CD4- gamma delta

thymocytes ([Sinkora et al. 2005](#)).

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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
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<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>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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>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: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),  
[DyLight@800](#), [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 \(MCA2307F\)](#)

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