

## Datasheet: MCA5954GA

**BATCH NUMBER 154110**

<b>Description:</b>	MOUSE ANTI PIG CD8 BETA CHAIN
<b>Specificity:</b>	CD8 BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PPT23
<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	▪			1/50 - 1/200
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
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Porcine thymus membrane lysate
<b>Fusion Partners</b>	Lymph node cells from immunized BALB/c mice were fused with cells of the NSO myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Pig CD8 beta chain, clone PPT23</b>, recognizes the porcine homologue of the human CD8 beta chain cell surface antigen.</p> <p>Characterization of clone PPT23, also known under the clone designation FYP1C5, has demonstrated that on peripheral blood lymphocytes and spleen, this antibody binds to cells that are CD3<sup>+</sup>, CD4<sup>-</sup>, CD8<sup>hi</sup> and as such defines this antibody as a specific marker of porcine α/β T cells. Characterization of clone PPT23 has shown that in thymic tissue both CD8<sup>lo</sup> and CD8<sup>hi</sup> cells are recognized (<a href="#">Yang H &amp; Parkhouse R.M. 1997</a>). Inhibition studies have demonstrated that clone PPT23 recognizes a different epitope of on the CD8 beta chain to clone PPT22.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Yang, H. &amp; Parkhouse, R.M. (1997) Differential expression of CD8 epitopes amongst porcine CD8-positive functional lymphocyte subsets. <a href="#">Immunology. 92 (1): 45-52.</a></li> <li>2. Mair, K.H. <i>et al.</i> (2015) Carbopol improves the early cellular immune responses induced by the modified-live vaccine Ingelvac PRRS<sup>®</sup> MLV. <a href="#">Vet Microbiol. 176 (3-4): 352-7.</a></li> <li>3. Sinkora, M. <i>et al.</i> (2007) Two groups of porcine TCRgammadelta+ thymocytes behave and diverge differently. <a href="#">J Immunol. 178 (2): 711-9.</a></li> </ol>
<b>Further Reading</b>	1. Zuckermann, F.A. <i>et al.</i> (1998) Report on the analyses of mAb reactive with porcine CD8 for the second international swine CD workshop. <a href="#">Vet Immunol Immunopathol. 60 (3-4): 291-303.</a>
<b>Storage</b>	<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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</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/MCA5954GA">https://www.bio-rad-antibodies.com/SDS/MCA5954GA</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>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</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 (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

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

### Recommended Useful Reagents

[MOUSE ANTI PIG wCD8 ALPHA:FITC \(MCA1223F\)](#)  
[MOUSE ANTI PIG wCD8 ALPHA \(MCA1223GA\)](#)  
[MOUSE ANTI PIG wCD8 ALPHA:RPE \(MCA1223PE\)](#)  
[MOUSE ANTI PIG CD5:FITC \(MCA2307F\)](#)  
[MOUSE ANTI PIG CD4 ALPHA:FITC \(MCA1749F\)](#)  
[MOUSE ANTI PIG CD4 ALPHA:RPE \(MCA1749PE\)](#)  
[MOUSE ANTI PIG CD4 ALPHA \(MCA1749GA\)](#)  
[MOUSE ANTI PIG CD3 \(MCA5951GA\)](#)

<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>
----------------------------------	---	------------------	---	---------------	---

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)

'M368518:200529'

Printed on 25 Mar 2023