

## Datasheet: MCA5954PE

<b>Description:</b>	MOUSE ANTI PIG CD8 BETA CHAIN:RPE
<b>Specificity:</b>	CD8 BETA
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PPT23
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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

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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose		
<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>	<b>Mouse anti Pig CD8 beta chain, clone PPT23</b> , recognizes the porcine homologue of the human CD8 beta chain cell surface antigen.		

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  $\alpha/\beta$  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 (Yang H & Parkhouse R.M. 1997). Inhibition studies have demonstrated that clone PPT23 recognizes a different epitope of on the CD8 beta chain to clone PPT22.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul

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**References**

1. Yang, H. & Parkhouse, R.M. (1997) Differential expression of CD8 epitopes amongst porcine CD8-positive functional lymphocyte subsets. [Immunology. 92 \(1\): 45-52.](#)
2. Mair, K.H. *et al.* (2015) Carbopol improves the early cellular immune responses induced by the modified-live vaccine Ingelvac PRRS<sup>®</sup> MLV. [Vet Microbiol. 176 \(3-4\): 352-7.](#)
3. Sinkora, M. *et al.* (2007) Two groups of porcine TCRgammadelta+ thymocytes behave and diverge differently. [J Immunol. 178 \(2\): 711-9.](#)

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**Further Reading**

1. Zuckermann, F.A. *et al.* (1998) Report on the analyses of mAb reactive with porcine CD8 for the second international swine CD workshop. [Vet Immunol Immunopathol. 60 \(3-4\): 291-303.](#)

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**Storage** Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. This product is photosensitive and should be protected from light.

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**Guarantee** 12 months from date of reconstitution

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**Health And Safety Information** Material Safety Datasheet documentation #10075 available at:  
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

[MOUSE ANTI PIG CD4 ALPHA \(MCA1749GA\)](#)

[MOUSE ANTI PIG CD45RA:FITC \(MCA1751F\)](#)

[MOUSE ANTI PIG CD3:FITC \(MCA5951F\)](#)

[MOUSE ANTI PIG CD3 \(MCA5951GA\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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