

Datasheet: MCA5954GA

Description:	MOUSE ANTI PIG CD8 BETA CHAIN
Specificity:	CD8 BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PPT23
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine thymus membrane lysate
Fusion Partners	Lymph node cells from immunized BALB/c mice were fused with cells of the NSO myeloma cell line
Specificity	<p>Mouse anti Pig CD8 beta chain, clone PPT23, 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⁺, CD4⁻, CD8^{hi} and as such defines this antibody as a specific marker of porcine α/β T cells, in thymic tissue both CD8^{lo} and CD8^{hi} cells are recognized (Yang & Parkhouse 1997). Mouse anti Pig CD8 beta chain, clone PPT23 recognizes a different epitope on the CD8 beta chain to clone PPT22.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 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. <i>et al.</i> (2015) Carbopol improves the early cellular immune responses induced by the modified-live vaccine Ingelvac PRRS[®] MLV. Vet Microbiol. 176 (3-4): 352-7. 3. Sinkora, M. <i>et al.</i> (2007) Two groups of porcine TCRgammadelta+ thymocytes behave and diverge differently. J Immunol. 178 (2): 711-9.
Further Reading	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. Vet Immunol Immunopathol. 60 (3-4): 291-303.
Storage	<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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5954GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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 \(MCA5951GA\)](#)

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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
'M381339:210512'

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