

Datasheet: MCA5954PE

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

| | 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.

| Target Species | Pig | | | | | | |
|---------------------------------|---|-------------------|---------------------|-------------------|-----------------|-----|-----|
| Product Form | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized | | | | | | |
| Reconstitution | Reconstitute with 1 ml distilled water | | | | | | |
| Max Ex/Em | <table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table> | Fluorophore | Excitation Max (nm) | Emission Max (nm) | RPE 488nm laser | 496 | 578 |
| Fluorophore | Excitation Max (nm) | Emission Max (nm) | | | | | |
| RPE 488nm laser | 496 | 578 | | | | | |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A | | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose | | | | | | |
| 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. Characterization of clone PPT23 has shown that in thymic tissue both CD8^{lo} and CD8^{hi} 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.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1x10 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>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #20487 available at: 20487: https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf |
| Regulatory | For research purposes only |

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 \(MCA5951GA\)](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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