

## Datasheet: MCA6098PE

**BATCH NUMBER 172933**

<b>Description:</b>	MOUSE ANTI PIG CD1:RPE
<b>Specificity:</b>	CD1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	76-7-4
<b>Isotype:</b>	IgG2a
<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 - 1/5

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) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

**Preparation** Purified IgG prepared by combination of precipitation and chromatography techniques

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** <0.1% Sodium Azide (NaN<sub>3</sub>)  
Stabilizing agent (sucrose)

**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml

<b>Immunogen</b>	Fresh dd miniature swine thymocytes
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9XS72</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">396785</a>   CD1.1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD1.1
<b>Specificity</b>	<p><b>Mouse anti Pig CD1 antibody, clone 76-7-4</b> recognizes a porcine homologue of the human CD1 cell surface receptor. CD1 is a member of the immunoglobulin superfamily. While it is structurally similar to the MHC class I receptor CD1 differs functionally by presenting lipid antigens to T cells (<a href="#">Germain &amp; Margulies, 1993</a>).</p> <p>To date, five classes of the CD1 genes have been identified across different mammalian species, namely CD1A, CD1B, CD1C, CD1D, and CD1E (<a href="#">Brigl &amp; Brenner, 2004</a>). In swine various tissues express CD1C even though its gene has been reported to carry a loss-of-function mutation (<a href="#">Eguchi-Ogawa et al. 2007</a>). CD1 is predominantly found on dendritic cells, macrophages, monocytes, and thymocytes (<a href="#">Chun et al. 1999</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	1. Pauly, T. <i>et al.</i> (1998) Infection with classical swine fever virus: effects on phenotype and immune responsiveness of porcine T lymphocytes. <a href="#">J Gen Virol. 79 ( Pt 1): 31-40.</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature.  Store at +4°C. DO NOT FREEZE.  This product should be stored undiluted. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10045 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6098PE">https://www.bio-rad-antibodies.com/SDS/MCA6098PE</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA929PE\)](#)

### Recommended Useful Reagents

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

[MOUSE ANTI PIG CD14:FITC \(MCA1218F\)](#)

**Product inquiries: [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)**

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M441106:250523'

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