

Datasheet: MCA6098PE

Description:	MOUSE ANTI PIG CD1:RPE
Specificity:	CD1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	76-7-4
Isotype:	IgG2a
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	■			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.

Target Species	Pig		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	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	0.1% Sodium Azide (NaN ₃)		
Stabilisers	<10% Sucrose		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Fresh dd miniature swine thymocytes		
External Database Links	UniProt: Q9XS72 Related reagents		
	Entrez Gene:		

Synonyms	CD1.1
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Specificity	<p>Mouse anti Pig CD1 antibody, clone 76-7-4 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 (Germain & Margulies, 1993).</p> <p>To date, five classes of the CD1 genes have been identified across different mammalian species, namely CD1A, CD1B, CD1C, CD1D, and CD1E (Brigl & Brenner, 2004). In swine various tissues express CD1C even though its gene has been reported to carry a loss-of-function mutation (Eguchi-Ogawa et al. 2007). CD1 is predominantly found on dendritic cells, macrophages, monocytes, and thymocytes (Chun et al. 1999).</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
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References	1. Pauly, T. <i>et al.</i> (1998) Infection with classical swine fever virus: effects on phenotype and immune responsiveness of porcine T lymphocytes. J Gen Virol. 79 (Pt 1): 31-40.
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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	Guaranteed until date of expiry. Please see product label.
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Health And Safety Information	Material Safety Datasheet documentation #10331 available at: 10331: https://www.bio-rad-antibodies.com/uploads/MSDS/10331.pdf
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Regulatory	For research purposes only
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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 \(MCA1218F\)](#)

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