Datasheet: MCA6098PE

BATCH NUMBER 157890

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 Stabilisers

0.1% Sodium Azide (NaN_3)
<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:** 396785 CD1.1 Related reagents
Synonyms	CD1.1
Specificity	**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). 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul
References	1. Pauly, T. *et al.* (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.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10331 available at: https://www.bio-rad-antibodies.com/SDS/MCA6098PE 10331
Regulatory	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)

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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

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