

Datasheet: MCA6098F

Description:	MOUSE ANTI PIG CD1:FITC
Specificity:	CD1
Format:	FITC
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

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by combination of precipitation and chromatography techniques		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 0.5 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. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD45RA:RPE \(MCA1751PE\)](#)

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