# Datasheet: MCA6098GA

**BATCH NUMBER 152167**

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|---|---|
| **Description:** | MOUSE ANTI PIG CD1 |
| **Specificity:** | CD1 |
| **Format:** | Purified |
| **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.

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| **Target Species** | Pig |
| **Product Form** | Purified IgG - liquid |
| **Preparation** | Purified IgG prepared by combination of precipitation and chromatography techniques |
| **Buffer Solution** | Borate buffered saline |
| **Preservative Stabilisers** | 0.09% 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:**

396785 CD1.1 Related reagents

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|---|---|
| **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).<br><br>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 1x$10^6$ 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$^o$C. DO NOT FREEZE.<br>This product should be stored undiluted. This product is photosensitive and should be protected from light. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10077 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA6098GA<br>10077 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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|---|---|
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos., HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, |

| | |
|---|---|
| | FITC, HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |

## Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

## Recommended Useful Reagents

MOUSE ANTI PIG CD45RA (MCA1751GA)
MOUSE ANTI PIG CD14 (MCA1218GA)


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|---|---|---|---|---|---|
| **North & South America** | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: antibody_sales_us@bio-rad.com | **Worldwide** | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: antibody_sales_uk@bio-rad.com | **Europe** | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: antibody_sales_de@bio-rad.com |


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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