

## Datasheet: MCA6098GA

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| <b>Description:</b>  | MOUSE ANTI PIG CD1  |
| <b>Specificity:</b>  | CD1                 |
| <b>Format:</b>       | Purified            |
| <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               |

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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|---------------------------------------|---|
| <b>Target Species</b>                 | Pig   |
| <b>Product Form</b>                   | Purified IgG - liquid   |
| <b>Preparation</b>                    | Purified IgG prepared by combination of precipitation and chromatography techniques |
| <b>Buffer Solution</b>                | Borate buffered saline  |
| <b>Preservative Stabilisers</b>       | <0.1% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5 mg/ml   |
| <b>Immunogen</b>                      | Fresh dd miniature swine thymocytes   |
| <b>External Database Links</b>        | <b>UniProt:</b><br><a href="#">Q9XS72</a> <a href="#">Related reagents</a>          |

**Entrez Gene:**[396785](#) CD1.1 [Related reagents](#)

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|                 |       |
|-----------------|-------|
| <b>Synonyms</b> | CD1.1 |
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| <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> |
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| <b>Flow Cytometry</b> | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul |
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| <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> |
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| <b>Storage</b> | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. This product is photosensitive and should be protected from light. |
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| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10077 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6098GA">https://www.bio-rad-antibodies.com/SDS/MCA6098GA</a><br>10077 |
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|-------------------|----------------------------|
| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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

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