# Datasheet: MCA6050GA

**BATCH NUMBER 1806**

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|---|---|
| **Description:** | MOUSE ANTI PIG SWC5 |
| **Specificity:** | SWC5 |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | b37c10 |
| **Isotype:** | IgG1 |
| **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 | ▪ | | | 1/10 - 1/200 |
| Immunohistology - Frozen | | | ▪ | |
| Immunoprecipitation | | | ▪ | |

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 affinity chromatography on Protein A from tissue culture supernatant |
| **Buffer Solution** | Phosphate buffered saline |
| **Preservative Stabilisers** | 0.09% Sodium Azide ($NaN_3$) |
| **Carrier Free** | Yes |
| **Approx. Protein Concentrations** | IgG concentration 1.0 mg/ml |

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| **Immunogen** | Porcine T cells |
| **Specificity** | **Mouse anti Pig SWC5 antibody, clone b37c10** recognizes the porcine SWC5 cell surface antigen. SWC5 has a molecular weight of 180 kDa and is expressed only on subset of γ/δ T cells.<br>SWC5 and CD2 expression divides γδ T cells into three subpopulations: CD2-SWC5-, CD2-SWC5+ and CD2+SWC5- γδ T cells subsets. The vast majority of CD2-SWC5- and CD2-SWC5+ T cells are negative for CD8α and SLA-DR and positive for CD27. Only thymus and spleen has an extra CD2+SWC5+ population. |
| **References** | 1. Binns, R.M. *et al.* (1992) Subsets of null and gamma delta T-cell receptor+ T lymphocytes in the blood of young pigs identified by specific monoclonal antibodies. Immunology. 77 (2): 219-27.<br>2. Binns, R.M. (1994) The Null/gamma delta TCR+ T cell family in the pig. Vet Immunol Immunopathol. 43 (1-3): 69-77.<br>3. Sedlak, C. *et al.* (2014) CD2 and CD8α define porcine γδ T cells with distinct cytokine production profiles. Dev Comp Immunol. 45 (1): 97-106. |
| **Further Reading** | 1. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39 (6): 54. |
| **Storage** | Store at +4°C or at -20°C if preferred.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10040 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA6050GA<br>10040 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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|---|---|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| 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 |

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|---|---|
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |

## Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)


**North & South America**
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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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