

## Datasheet: MCA564GA

**BATCH NUMBER 0215**

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Description:</b>  | MOUSE ANTI GUINEA PIG T LYMPHOCYTES |
| <b>Specificity:</b>  | T LYMPHOCYTES                       |
| <b>Format:</b>       | Purified                            |
| <b>Product Type:</b> | Monoclonal Antibody                 |
| <b>Clone:</b>        | MsGp7                               |
| <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             | ▪   |    |                | 1/50 - 1/200       |
| Immunohistology - Frozen   | ▪   |    |                |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           |     |    | ▪              |                    |

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.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Guinea Pig  |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Carrier Free</b>             | Yes   |

|                                       |   |
|---------------------------------------|---|
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |
| <b>Immunogen</b>                      | Guinea Pig T Lymphocytes  |
| <b>Fusion Partners</b>                | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.   |
| <b>Specificity</b>                    | <b>Mouse anti Guinea Pig T Lymphocytes, clone MsGp7</b> , is pan reactive with guinea pig T lymphocytes (>95%) in lymph nodes, and does not react with B lymphocytes. It reacts with approximately 70% of thymocytes by FACS analysis and immunohistochemically the medullary thymocytes strongly express this antigen ( <a href="#">Healey et al. 1988</a> ).  |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.   |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Healey, D.G. <i>et al.</i> (1988) Behaviour of guinea pig T cells stimulated by antigen, allo-antigen and mitogen. <a href="#">Int Arch Allergy Appl Immunol. 87 (2): 134-42.</a></li> <li>2. Butter, C. <i>et al.</i> (1988) An immunoelectron microscopical study of the expression of class II MHC and a T lymphocyte surface marker during chronic relapsing experimental allergic encephalomyelitis. <a href="#">J Neuroimmunol. 20 (1): 45-51.</a></li> <li>3. Kaufmann, E. <i>et al.</i> (2016) BCG Vaccination Induces Robust CD4+ T Cell Responses to <i>Mycobacterium tuberculosis</i> Complex-Specific Lipopeptides in Guinea Pigs. <a href="#">J Immunol. 196 (6): 2723-32.</a></li> <li>4. Sato H <i>et al.</i> (1997) Production of murine monoclonal antibodies to guinea pig leukocytes and immunohistochemistry of guinea pig skin exposed to <i>Schistosoma mansoni</i>. <a href="#">Hybridoma. 16 (6): 529-36.</a></li> <li>5. Cowley, S.A. <i>et al.</i> (1989) An immunoelectronmicroscopical study of the expression of major histocompatibility complex (MHC) class II antigens in guinea pig sciatic nerves following induction of intraneural mycobacterial granulomas. <a href="#">J Neuroimmunol. 23 (3): 223-31.</a></li> <li>6. Schäfer H &amp; Burger R (2012) Tools for cellular immunology and vaccine research the in the guinea pig: monoclonal antibodies to cell surface antigens and cell lines. <a href="#">Vaccine. 30 (40): 5804-11.</a></li> </ol> |
| <b>Storage</b>                        | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.</p>   |
| <b>Guarantee</b>                      | 12 months from date of despatch   |
| <b>Health And Safety Information</b>  | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA564GA">https://www.bio-rad-antibodies.com/SDS/MCA564GA</a><br>10040   |
| <b>Regulatory</b>                     | For research purposes only  |

## 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 IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</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 (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |

## Recommended Useful Reagents

[MOUSE ANTI GUINEA PIG B CELL SUBSET \(MCA567\)](#)  
[MOUSE ANTI GUINEA PIG MACROPHAGES \(MCA518S\)](#)  
[MOUSE ANTI GUINEA PIG CD8:FITC \(MCA752F\)](#)

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

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)  
'M368281:200529'

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