

# Datasheet: MCA564GA

**BATCH NUMBER 165925**

<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 immunized 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 $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Healey, D.G. et al. (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. et al. (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. Cowley, S.A. et al. (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>4. Sato H et al. (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. Kaufmann, E. et al. (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>6. Eckhardt, E. et al. (2023) Phosphatidylinositolmannoside vaccination induces lipid-specific Th1-responses and partially protects guinea pigs from <i>Mycobacterium tuberculosis</i> challenge. <a href="#">Sci Rep. 13 (1): 18613.</a></li> </ol>
<b>Further Reading</b>	1. Schäfer H & 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>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA564GA>  
10040

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

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](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

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

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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://www.bio-rad-antibodies.com/datasheets)  
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