Datasheet: MCA564GA

BATCH NUMBER 166064

Description:	MOUSE ANTI GUINEA PIG T LYMPHOCYTES
Specificity:	T LYMPHOCYTES
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MsGp7
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	▪			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.

Target Species	Guinea 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
Immunogen	Guinea Pig T Lymphocytes
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	**Mouse anti Guinea Pig T Lymphocytes, clone MsGp7**, 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 (Healey *et al.* 1988).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.
References	1. Healey, D.G. *et al.* (1988) Behaviour of guinea pig T cells stimulated by antigen, allo-antigen and mitogen. Int Arch Allergy Appl Immunol. 87 (2): 134-42. 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. J Neuroimmunol. 20 (1): 45-51. 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. J Neuroimmunol. 23 (3): 223-31. 4. Sato H *et al.* (1997) Production of murine monoclonal antibodies to guinea pig leukocytes and immunohistochemistry of guinea pig skin exposed to *Schistosoma mansoni*. Hybridoma. 16 (6): 529-36. 5. Kaufmann, E. *et al.* (2016) BCG Vaccination Induces Robust CD4+ T Cell Responses to *Mycobacterium tuberculosis* Complex-Specific Lipopeptides in Guinea Pigs. J Immunol. 196 (6): 2723-32. 6. Eckhardt, E. *et al.* (2023) Phosphatidylinositolmannoside vaccination induces lipid-specific Th1-responses and partially protects guinea pigs from *Mycobacterium tuberculosis* challenge. Sci Rep. 13 (1): 18613.
Further Reading	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. Vaccine. 30 (40): 5804-11.
Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety	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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