

Datasheet: MCA560GA

BATCH NUMBER 0215

Description:	MOUSE ANTI GUINEA PIG LYMPHOCYTES AND LANGERHANS CELLS
Specificity:	LYMPHOCYTES
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MsGp2
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	▪			1/50 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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	Nylon wool adherent B cells
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells from the NS1 mouse myeloma cell line
Specificity	<p>Mouse anti Guinea Pig lymphocytes and Langerhans cells antibody, clone MsGp2 recognizes an antigen present on the majority of T and B lymphocytes and thymocytes, although the antigen is not expressed by germinal centre cells of the lymph node (Kraal et al. 1986).</p> <p>Mouse anti Guinea Pig lymphocytes and Langerhans cells antibody, clone MsGp2 also reacts strongly with epidermal Langerhans cells, giving a superior profile than anti-MHC Class II antibodies on these cells (Healey et al. 1987).</p> <p>Mouse anti Guinea Pig lymphocytes and Langerhans cells antibody, clone MsGp2 has the same distribution as Mouse anti Guinea Pig CD90 antibody, clone CT4 which detects an antigen reportedly involved in the organ non-specific trafficking of guinea pig lymphocytes (Kraal et al 1988). However, unlike clone CT4, clone MsGp2 does not functionally inhibit lymphocyte adherence to high endothelial venules <i>in vitro</i> (Healey et al. 1987).</p>
References	<ol style="list-style-type: none"> 1. Healey, D.G. <i>et al.</i> (1987) An antigenic determinant common to lymphocytes and Langerhans cells of the guinea pig. Int Arch Allergy Appl Immunol. 82 (2): 120-4. 2. Kraal, G. <i>et al.</i> (1986) A surface molecule on guinea pig lymphocytes involved in adhesion and homing. Eur J Immunol. 16 (12): 1515-9. 3. Baker, D. <i>et al.</i> (1987) Induction of sensitization and tolerance in contact sensitivity with haptenated epidermal cells in the guinea-pig. Immunology. 62 (4): 659-64. 4. Mendoza, J.M. <i>et al.</i> (2013) Elucidating the Kinetics of Expression and Immune Cell Infiltration Resulting from Plasmid Gene Delivery Enhanced by Surface Dermal Electroporation. Vaccines (Basel). 1 (3): 384-97. 5. Smith, T.R. <i>et al.</i> (2014) DNA vaccination strategy targets epidermal dendritic cells, initiating their migration and induction of a host immune response. Mol Ther Methods Clin Dev. 1: 14054. 6. Sato H & Kamiya H (1995) Role of epidermal Langerhans' cells in the induction of protective immunity to <i>Schistosoma mansoni</i> in guinea-pigs. Immunology. 84 (2): 233-40. 7. Schäfer, H. <i>et al.</i> (1991) T cell proliferation induced by monoclonal antibodies to a phosphatidylinositol-linked differentiation antigen of guinea pig lymphocytes. Eur J Immunol. 21 (3): 701-5. 8. 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	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p>

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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA560GA 10040
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Regulatory	For research purposes only
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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 T LYMPHOCYTES \(MCA564GA\)](#)

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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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