## Datasheet: MCA637GA BATCH NUMBER 158337

Description:	MOUSE ANTI PIG IgM
Specificity:	IgM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K52 1C3
lsotype:	lgG1
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 <u>www.bio-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-					
	Immunohistology - Frozen	-					
	Immunohistology - Paraffin			•			
	ELISA	-			1/5000 - 1/100,000		
	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.						
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Target Species	Pig						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by supernatant	affinity ch	iromatogr	aphy on Protein A fro	m tissue culture		
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN <sub>3</sub> )					
Carrier Free	Yes						

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine IgM
Fusion Partners	Spleen cells of immunised mice were fused with cells of the P3 - X63 - Ag 8.653 mouse myeloma line.
Specificity	Mouse anti Pig IgM antibody, clone K52 1C3 recognizes porcine IgM heavy chain. No cross-reactivity with porcine IgA and IgG is seen in ELISA.
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
References	<ol> <li>Andersen, J.K. <i>et al.</i> (1999) Systematic characterization of porcine ileal Peyer's patch, I. apoptosis-sensitive immature B cells are the predominant cell type. <u>Immunology. 98 (4): 612-21.</u></li> <li>Baltes, N. <i>et al.</i> (2001) <i>Actinobacillus pleuropneumoniae</i> iron transport and urease activity: effects on bacterial virulence and host immune response. <u>Infect Immun. 69 (1): 472-8.</u></li> <li>Leitão, A. <i>et al.</i> (2001) The non-haemadsorbing African swine fever virus isolate ASFV/NH/P68 provides a model for defining the protective anti-virus immune response. <u>J</u> <u>Gen Virol. 82 (Pt 3): 513-23.</u></li> <li>Bailey, M. (2004) Effects of infection with transmissible gastroenteritis virus on concomitant immune responses to dietary and injected antigens. <u>Clin Diagn Lab Immunol.</u> 11: 337-43.</li> <li>Hamano, M. <i>et al.</i> (2007) Detection of antibodies to Japanese encephalitis virus in the wild boars in Hiroshima prefecture, Japan. <u>Epidemiol Infect. 135: 974-7.</u></li> <li>Stepanova, H. <i>et al.</i> (2011) Association of attenuated mutants of <i>Salmonella enterica</i> serovar Enteritidis with porcine peripheral blood leukocytes. <u>FEMS Microbiol Lett. 321: 37-42.</u></li> <li>Levis MC <i>et al.</i> (2013) Dietary supplementation with Bifidobacterium lactis NCC2818 from weaning reduces local immunoglobulin production in lymphoid-associated issues but increases systemic antibodies in healthy neonates. <u>Br J Nutr. 110: 1243-52.</u></li> <li>Chen, F. <i>et al.</i> (2015) Generation of B Cell-Deficient Pigs by Highly Efficient CRISPR/Cas9-Mediated Gene Targeting. J Genet Genomics. 42 (8): 437-44.</li> <li>Seele, J. <i>et al.</i> (2015) Oral antigen exposure in newborn piglets circumvents induction of oral tolerance in response to intraperitoneal vaccination in later life. <u>BMC Vet Res. 11: 350.</u></li> <li>Rahe, M.C. &amp; Murtaugh, M.P. (2017) Interleukin-21 Drives Proliferation and Differentiation of Porcine Memory B Cells into Antibody Secreting Cells. <u>PLoS One. 12 (1): e01711171.</u></li> <li>Rueglerath, V. <i>et</i></li></ol>

	<u>1314-1337.</u>	
	14. Buermann, A. et al. (2018) Pigs expressing the human inhil	bitory ligand PD-L1 (CD
	274) provide a new source of xenogeneic cells and tissues with	n low immunogenic
	properties. Xenotransplantation. 25 (5): e12387.	
	15. Corsaut, L. et al. (2020) Field Study on the Immunological I	Response and Protective
	Effect of a Licensed Autogenous Vaccine to Control Streptocod	cus suis Infections in
	Post-Weaned Piglets. Vaccines (Basel). 8 (3): 384.	
Storage	This product is shipped at ambient temperature. It is recommer	nded 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	s 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/MCA637GA	
	10040	
Regulatory	For research purposes only	

## **Related Products**

## **Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR77)	HRP			
Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG (STAR70)	FITC			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>				
Goat Anti Mouse IgG (STAR76) RPE				
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Rabbit Anti Mouse IgG (STAR9)	FITC			
Recommended Negative Controls				
MOUSE IgG1 NEGATIVE CONTROL (MCA928)				

North & South	Tel: +1 800 265 7376 Wo	orldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.cor	m	Email: antibody_sales_uk@bio-rad	.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381852:210512'

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