

Datasheet: MCA1223GA BATCH NUMBER 1609

Description:	MOUSE ANTI PIG wCD8 ALPHA
Specificity:	CD8 ALPHA
Other names:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIL12
Isotype:	lgG2a
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-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				1/25 - 1/200
	Immunohistology - Frozen				
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting			•	
	Where this product has n	use in a particular tecl	nnique this does not		
	necessarily exclude its us	se in sucl	h procedu	res. Suggested workir	ng dilutions are given as
	a guide only. It is recomm	nended th	hat the us	er titrates the product	for use in their own
	system using appropriate	negative	e/positive	controls.	
Target Species	Pig				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein A supernatant			raphy on Protein A fro	m tissue culture
Buffer Solution	Phosphate buffered salin	e			

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine mesenteric lymphocytes.
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3 - X63 - Ag.653 myeloma cell line.
Specificity	Mouse anti Pig wCD8 alpha antibody, clone MIL12 recognizes an epitope on the alpha chain of porcine wCD8. Clone MII12 was clustered at the Third International Swine CD Workshop (Haverson <i>et al.</i> 2001). Mouse anti Pig wCD8 alpha antibody, clone MIL12 was determined to bind to the CD8a epitope on the alpha chain based on its staining pattern on T lymphocytes and on its ability to block binding of the previously characterized CD8a antibody clone 76-2-11 to T lymphocytes (<u>Saalmuller <i>et al.</i>2001</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Sarradell, J. <i>et al.</i> (2003) A morphologic and immunohistochemical study of the bronchus-associated lymphoid tissue of pigs naturally infected with Mycoplasma hyopneumoniae. <u>Vet Pathol. 40: 395-404.</u> Kick, A.R. <i>et al.</i> (2011) Evaluation of peripheral lymphocytes after weaning and vaccination for <i>Mycoplasma hyopneumoniae</i>. <u>Res Vet Sci. 91 (3): e68-72.</u> Tambuyzer, B.R. <i>et al.</i> (2012) Osteopontin alters the functional profile of porcine microglia <i>in vitro</i>. <u>Cell Biol Int. 36 (12): 1233-8.</u> Cao, D. <i>et al.</i> (2010) Synthetic innate defence regulator peptide enhances in vivo immunostimulatory effects of CpG-ODN in newborn piglets. <u>Vaccine. 28: 6006-13.</u> Clapperton, M. <i>et al.</i> (2005) Innate immune traits differ between Meishan and Large White pigs. <u>Vet Immunol Immunopathol. 104: 131-44.</u> Goujon, J.M. <i>et al.</i> (2000) Influence of cold-storage conditions on renal function of autotransplanted large pig kidneys. <u>Kidney Int. 58: 838-50.</u> Hauet, T. <i>et al.</i> (2002) Polyethylene glycol reduces the inflammatory injury due to cold ischemia/reperfusion in autotransplanted pig kidneys. <u>Kidney Int. 62: 654-67.</u> Piva, A. <i>et al.</i> (2012) Effects of stress associated with weaning on the adaptive immune system in pigs. <u>JAnim Sci. 90: 649-56.</u> Shi, K. <i>et al.</i> (2008) Changes in peripheral blood leukocyte subpopulations in piglets co-infected experimentally with porcine reproductive and respiratory syndrome virus and porcine circovirus type 2. <u>Vet Microbiol. 129: 367-77.</u> Spreeuwenberg, M.A. <i>et al.</i> (2001) Small intestine epithelial barrier function is compromised in pigs with low feed intake at weaning. <u>J Nutr. 131: 1520-7.</u> Clapperton, M. <i>et al.</i> (2008) Pig peripheral blood mononuclear leucocyte subsets are heritable and genetically correlated with performance. <u>Animal. 2: 1575-84.</u> Leifer, I. <i>et al.</i> (2012) Characterization of C-strain "Riems" TAV-epitope escape

protein:carbohydrate ratios during pregnancy on offspring immunity in pigs. <u>BMC Vet Res.</u> 8: 232.

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in swine. BMC Genomics. 13: 488.	

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25. Hemmink, J.D. *et al.* (2016) Distinct immune responses and virus shedding in pigs following aerosol, intra-nasal and contact infection with pandemic swine influenza A virus, A(H1N1)09. <u>Vet Res. 47 (1): 103.</u>

26. López, E. *et al.* (2019) Identification of very early inflammatory markers in a porcine myocardial infarction model. <u>BMC Vet Res. 15 (1): 91.</u>

27. Hu, Z. *et al.* (2019) Genomic variant in porcine TNFRSF1A gene and its effects on TNF signaling pathway *in vitro*. <u>Gene. 700: 105-9.</u>

28. Fogle, J.E. *et al.* (2019) Antibiotic Therapy Does Not Alter the Humoral Response to Vaccination for Porcine Circovirus 2 in Weaned Pigs. <u>Vet Sci. 6 (2)May 30 [Epub ahead of print]</u>.

 Further Reading
 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update.

 Vet Res. 39: 54.

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

	Storage in frost-free freezers is not recommended. 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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1223GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

North & South	Tel: +1 800 265 7376	Worldwide	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-r	ad.com	Email: antibody_sales_uk@bio-r	ad.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 'M364958:200529'

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