

Datasheet: MCA1223PE

BATCH NUMBER 1602

Description:	MOUSE ANTI PIG wCD8 ALPHA:RPE	
Specificity:	CD8 ALPHA	
Other names:	CD8	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	MIL12	
Isotype:	lgG2a	
Quantity:	100 TESTS	

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	•			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Pig			
Product Form	Purified IgG conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1.	0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepare supernatant	ed by affinity chromatog	raphy on Protein A fr	om tissue culture
Buffer Solution	Phosphate buffered	saline		
Preservative	0.09% Sodium Azid	e		
Stabilisers	1% Bovine Serui	m Albumin		

E0/	_
5%	Sucrose
.)/()	CUCIUSE

Immunogen	Porcine mesenteric lymphocytes.	
RRID	AB_323454	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cemyeloma cell line.	ells of the P3 - X63 - Ag.653
Specificity	Mouse anti Pig wCD8 alpha antibody, clone MIL12 recognize chain of porcine wCD8. Clone MII12 was clustered at the Third Workshop (Haverson et al. 2001). Mouse anti Pig wCD8 alpha determined to bind to the CD8a epitope on the alpha chain bar on T lymphocytes and on its ability to block binding of the prevantibody clone 76-2-11 to T lymphocytes (Saalmuller et al.200	d International Swine CD a antibody, clone MIL12 was sed on its staining pattern viously characterized CD8a
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in	100ul.

References

- 1. Sarradell, J. *et al.* (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>
- 2. Kick, A.R. *et al.* (2011) Evaluation of peripheral lymphocytes after weaning and vaccination for *Mycoplasma hyopneumoniae*. Res Vet Sci. 91 (3): e68-72.
- 3. Tambuyzer, B.R. *et al.* (2012) Osteopontin alters the functional profile of porcine microglia *in vitro*. Cell Biol Int. 36 (12): 1233-8.
- 4. Cao, D. *et al.* (2010) Synthetic innate defence regulator peptide enhances in vivo immunostimulatory effects of CpG-ODN in newborn piglets. <u>Vaccine</u>. 28: 6006-13.
- 5. Clapperton, M. *et al.* (2005) Innate immune traits differ between Meishan and Large White pigs. Vet Immunol Immunopathol. 104: 131-44.
- 6. Goujon, J.M. *et al.* (2000) Influence of cold-storage conditions on renal function of autotransplanted large pig kidneys. <u>Kidney Int. 58: 838-50.</u>
- 7. Hauet, T. *et al.* (2002) Polyethylene glycol reduces the inflammatory injury due to cold ischemia/reperfusion in autotransplanted pig kidneys. <u>Kidney Int. 62</u>: 654-67.
- 8. Piva, A. *et al.* (2005) Activated carbon does not prevent the toxicity of culture material containing fumonisin B1 when fed to weanling piglets. J Anim Sci. 83 (8): 1939-47.
- 9. Kick, A.R. *et al.* (2012) Effects of stress associated with weaning on the adaptive immune system in pigs. <u>J Anim Sci. 90: 649-56.</u>
- 10. Shi, K. *et al.* (2008) Changes in peripheral blood leukocyte subpopulations in piglets co-infected experimentally with porcine reproductive and respiratory syndrome virus and porcine circovirus type 2. Vet Microbiol. 129: 367-77.
- 11. Spreeuwenberg, M.A. *et al.* (2001) Small intestine epithelial barrier function is compromised in pigs with low feed intake at weaning. <u>J Nutr. 131: 1520-7.</u>
- 12. Clapperton, M. *et al.* (2008) Pig peripheral blood mononuclear leucocyte subsets are heritable and genetically correlated with performance. <u>Animal. 2: 1575-84.</u>
- 13. Leifer, I. *et al.* (2012) Characterization of C-strain "Riems" TAV-epitope escape variants obtained through selective antibody pressure in cell culture. Vet Res. 43: 33.
- 14. Tuchscherer, M. *et al.* (2012) Effects of inadequate maternal dietary protein:carbohydrate ratios during pregnancy on offspring immunity in pigs. <u>BMC Vet Res.</u>

8: 232.

- 15. Lu, X. *et al.* (2012) Genome-wide association study for T lymphocyte subpopulations in swine. <u>BMC Genomics</u>. 13: 488.
- 16. Swamy, H.V. *et al.* (2003) Effects of feeding a blend of grains naturally contaminated with Fusarium mycotoxins on growth and immunological measurements of starter pigs, and the efficacy of a polymeric glucomannan mycotoxin adsorbent. <u>J Anim Sci. 81:</u> 2792-803.
- 17. Monroy-Salazar, H.G. *et al.* (2012) Effects of a live yeast dietary supplement on fecal coliform counts and on peripheral blood CD4+ and CD8+ lymphocyte subpopulations in nursery pigs. <u>J Swine Health Prod. 20: 276–282.</u>
- 18. Ostrowska, E. *et al.* (2004) Effects of dietary conjugated linoleic acid on haematological and humoral responses in the grower pig. <u>Australian Journal of Agricultural Research 55: 711–718</u>
- 19. Carter, D.B. *et al.* (2002) Phenotyping of transgenic cloned piglets. <u>Cloning Stem</u> Cells. 4: 131-45.
- 20. Stenfeldt, C. *et al.* (2014) Morphologic and phenotypic characteristics of myocarditis in two pigs infected by foot-and mouth disease virus strains of serotypes O or A. <u>Acta Vet Scand.</u> 56: 42.
- 21. Zeigler, B.M. *et al.* (2015) The development and validation of methods for evaluating the immune system in preweaning piglets. <u>Food Chem Toxicol. 84: 197-207.</u>
- 22. Pasternak, J. A. (2014) Grouping Pig-Specific Responses to Mitogen with Similar Responder Animals may Facilitate the Interpretation of Results Obtained in an Out-Bred Animal Model <u>Journal of Vaccines & Vaccination</u>. 05 (05).
- 23. Marinaro M *et al.* (2015) Changes in peripheral blood leucocytes of sheep experimentally infected with *Mycoplasma agalactiae*. Vet Microbiol. 175 (2-4): 257-64.
- 24. Liermann, W. *et al.* (2016) Effects of two commercial diets and technical feed treatment on stomach lesions and immune system of fattening pigs. <u>J Anim Physiol Anim Nutr (Berl)</u>. Nov 2. [Epub ahead of print]
- 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. Vet Res. 47 (1): 103.
- 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*. Gene. 700: 105-9.
- 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

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be

protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1223PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA929PE)

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-rad.com

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 'M375287:210104'

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