

Datasheet: MCA1751PE

BATCH NUMBER 167634

Description:	MOUSE ANTI PIG CD45RA:RPE
Specificity:	CD45RA
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MIL13
Isotype:	lgG1
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 Chasins	D'			
Target Species	Pig			
Product Form	Purified IgG conjugated 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 prepared	from tissue culture su	pernatant	
Buffer Solution	Phosphate buffered s	aline		
Preservative	0.09% sodium azide (NaN ₃)			
Stabilisers	1% bovine serum albumin			

Immunogen	Cells isolated from porcine mesenteric lymph node
RRID	AB_323626
Specificity	Mouse anti Pig CD45RA, clone MIL13, recognizes an epitope contained in the portion of porcine CD45 encoded by exon A, CD45RA (<u>Lunney et al. 2007</u>).
	Mouse anti pig CD45RA, clone MIL13 recognizes both the 210 kDa RA CD45 isoform and the 226 kDa RAC isoform (<u>Zuckermann et al. 2001</u>). Clone MIL13 does not recognize the CD45RC or CD45RO isoforms.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	 Pakkanen, T.M. <i>et al.</i> (2000) Periadventitial lacZ gene transfer to pig carotid arteries using a biodegradable collagen collar or a wrap of collagen sheet with adenoviruses and plasmid-liposome complexes. J Gene Med. 2: 52-60. Terzic, S. <i>et al.</i> (2002) Immunophenotyping of leukocyte subsets in peripheral blood and palatine tonsils of prefattening pigs. Vet Res Commun. 26: 273-83. Bozić F <i>et al.</i> (2002) Recruitment of intestinal CD45RA+ and CD45RC+ cells induced by a candidate oral vaccine against porcine post-weaning colibacillosis. Vet Immunol Immunopathol. 86 (3-4): 137-46. Schierack, P. <i>et al.</i> (2009) Effects of Bacillus cereus var. toyoi on immune parameters of pregnant sows. Vet Immunol Immunopathol. 127: 26-37. Thierry, A. <i>et al.</i> (2012) Identification of invariant natural killer T cells in porcine peripheral blood. Vet Immunol Immunopathol. 149 (3-4): 272-9. Suzuki, S. <i>et al.</i> (2016) Generation and characterization of RAG2 knockout pigs as animal model for severe combined immunodeficiency. Vet Immunol Immunopathol. 178: 37-49. López, E. <i>et al.</i> (2019) Identification of very early inflammatory markers in a porcine myocardial infarction model. BMC Vet Res. 15 (1): 91. Li, K. <i>et al.</i> (2019) Generation of porcine monoclonal antibodies based on single cell technologies. Vet Immunol Immunopathol. 215: 109913. Forner, R. <i>et al.</i> (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. PLoS One. 16 (5): e0249366. Ogihara, K. <i>et al.</i> (2022) A porcine lymphoma-derived cell line co-expressing lgM, lgG and lgA. J Vet Med Sci. 84 (6): 760-5. Zhao, H. <i>et al.</i> (2022) Development of <i>RAG2 - L. L2Ry - V. immuno deficient FAH-knockout miniature pig. Front Immunol. 13: 950194.</i> Haach, V. <i>et al.</i> (2023) A polyvalent virosomal influenza vaccine induces broad cellular and humoral immunity in pigs. Virol J. 20 (1): 181.
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/MCA1751PE 20487
Regulatory	For research purposes only

Related Products

America

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

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Europe

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419445:230616'

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