Datasheet: MCA1751F BATCH NUMBER 163800

Description:	MOUSE ANTI PIG CD45RA:FITC
Specificity:	CD45RA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MIL13
Isotype:	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-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Immunohistology - Froze	n		•	
	Immunohistology - Parafi	fin		•	
	Where this product has	s not been te	ested for u	se in a particular te	chnique this does not
	necessarily exclude its	use in such	procedure	es. Suggested work	ing dilutions are given as
	a guide only. It is recor system using appropria	mmended th ate negative	the user positive co	r titrates the productor ontrols.	t for use in their own
Target Species	Pig				
Product Form	Purified IgG conjugate	d to Fluores	cein Isothi	ocyanate Isomer 1 ((FITC) - liquid
Max Ex/Em	Fluorophore	Excitation M	lax (nm)	Emission Max (nm)	
	FITC	490		525	-
Preparation	Purified IgG prepared from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin				
Approx. Protein Concentrations	IgG concentration 0.1	mg/ml			

Immunogen	Cells isolated from porcine mesenteric lymph node
RRID	AB_323348
Specificity	Mouse anti Pig CD45RA, clone MIL13, recognizes an epitope contained in the portion of porcine CD45 encoded by exon A, CD45RA (<u>Lunney <i>et al.</i> 2007</u>).
	Mouse anti pig CD45RA, clone MIL13 recognizes both the 210 kDa RA CD45 isoform and the 226 kDa RAC isoform (Zuckermann <i>et al.</i> 2001). 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. <u>Vet Res Commun. 26</u>: 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. <u>Vet Immunol Immunopathol. 86</u> (3-4): 137-46. Schierack, P. <i>et al.</i> (2009) Effects of <i>Bacillus cereus</i> var. <i>toyoi</i> on immune parameters of pregnant sows. <u>Vet Immunol Immunopathol. 127</u>: 26-37. Thierry, A. <i>et al.</i> (2012) Identification of invariant natural killer T cells in porcine peripheral blood. <u>Vet Immunol Immunopathol. 149</u> (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. <u>Vet Immunol Immunopathol. 178</u>: <u>37-49</u>. Lipkez, E. <i>et al.</i> (2019) Identification of very early inflammatory markers in a porcine myocardial infarction model. <u>BMC Vet Res. 15 (1)</u>: 91. Li, K.<i>et al.</i> (2019) Generation of porcine monoclonal antibodies based on single cell technologies. <u>Vet Immunol Immunopathol. 215</u>: 109913. Forner, R. <i>et al.</i> (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. <u>PLoS One. 16 (5): e0249366</u>. Ogihara, K. <i>et al.</i> (2022) A porcine lymphoma-derived cell line co-expressing IgM, IgG and IgA. J. Vet Med Sci. 84 (6): 760-5. Zhaach, V. <i>et al.</i> (2022) Development of <i>RAG2 ^{-/-} IL2R</i> y ^{-/v} immune deficient FAH-knockout minature pig. Front Immunol. 13: 950194. Haach, V. <i>et al.</i> (2022) Effects of freezing storage on the stability of maternal cellular and humoral immune cemponent

Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immun <u>Vet Res. 39: 54.</u>	e cells in swine: an update.
Storage	This product is shipped at ambient temperature. It is recommen-20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot	nded to aliquot and store at . Keep aliquots at 2-8°C for s at -20°C.
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photos protected from light.	antibody. Storage in ensitive and should be
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1751F 10041	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South	Tel: +1 800 265 7376	Vorldwide	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.co	om	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 'M411338:221102'

Printed on 07 Jun 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint