

Datasheet: MCA1749PE BATCH NUMBER 1808

MOUSE ANTI PIG CD4 ALPHA:RPE
CD4 ALPHA
CD4
RPE
Monoclonal Antibody
MIL17
lgG2b
Iggzb

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		
	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 conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1.0 ml distilled water						
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered sali	ne					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A	lbumin					

	5% Sucrose						
Immunogen	Leucocytes isolated from porcine gut lamina propria.						
RRID	AB_323455						
Specificity	Mouse anti Porcine CD4 alpha, clone MIL17 recognizes a ~55 kDa porcine homologi to the human CD4 antigen found on the surface of helper-T cells. MIL-17 was confirmed as a member of the CD4 alpha cluster at the 'Third International Workshop on Swine Leukocyte Differentiation Antigens' (<u>Haverson <i>et al.</i> 2001</u>). Porcine CD4 is a type 1 tran membrane member of the immunoglobulin superfamily.						
	Pigs appear unusual amongst mammalian species as they appear to have four populations of resting T lymphocytes. In addition to the two populations of mutually exclusive CD4+/CD8- and CD4-/CD8+ lymphocytes, they also appear to have significant populations of CD4-/CD8- and CD4+/CD8+ cells. Lymphoblasts with a double positive phenotype have been described in other species but this is not the case for mature T lymphocytic calls (<u>Saalmuller <i>et al.</i> 1987</u>)						
	Mouse anti Pig CD4 alpha, clone MIL17 stains a population of cells with characteristic lymphocyte morphology in immunohistochemistry (Inman <i>et al.</i> 2010).						
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.						
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Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <u>Vet Res. 39: 54.</u>
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	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/MCA1749PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

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 'M375360:210104'

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