Datasheet: MCA1038PB BATCH NUMBER 152312

Description:	RAT ANTI DOG CD4:Pacific Blue®		
Specificity:	CD4		
Format:	Pacific Blue®		
Product Type:	Monoclonal Antibody		
Clone:	YKIX302.9		
lsotype:	lgG2a		
Quantity:	100 TESTS/1ml		

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 - 1/5
	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	Dog				
Product Form	Purified IgG conjugated to Pacific Blue® - liquid				
Max Ex/Em	Fluorophore	Excitation Max	k (nm)	Emission Max (nm)	
	Pacific Blue®	410		455	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml				

Immunogen	Canine concanavilin A activated T cell blasts.
External Database Links	UniProt: <u>P33705</u> <u>Related reagents</u> Entrez Gene: <u>403931</u> CD4 <u>Related reagents</u>
RRID	AB_2077612
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.
Specificity	 Rat anti Dog CD4 antibody, clone YKIX302.9, is a monoclonal antibody specific for the canine CD4 cell surface antigen. Clone YKIX302.9 was clustered at the first Canine Leukocyte Antigen Workshop (CLAW) [Cobbold <i>et al.</i> 1992] along with clone CA13.1E4. Rat anti Dog CD4 antibody, clone YKIX302.9 partially depletes circulating T lymphocytes when administered <i>in vivo</i>, but alone is not sufficient to prolong allograft survival in a canine transplant model (Watson <i>et al.</i> 1993). Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocyte subsets (Moore <i>et al.</i> 1992).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
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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. This product is photosensitive and should be protected from light.

	Avoid repeated freezing and thawing as this may denature the product contain a precipitate we recommend microcentrifugatio	•
Guarantee	12 months from date of despatch	
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