

# Datasheet: MCA1038PECY7 BATCH NUMBER 163854

Description:	RAT ANTI DOG CD4:RPE-Cy7
Specificity:	CD4
Format:	RPE-CY7
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 www.bio-						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat		
	Where this product has not been tested for use in a particular technique this does no necessarily exclude its use in such procedures. Suggested working dilutions are give a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.						
Target Species	Dog						
Product Form	Purified IgG conjugate	d to R. Phyco	erythrin	(RPE)-Cy7 - Iyophi	lized		
Reconstitution	Reconstitute with 1ml of Care should be taken of bottom of the vial. Bio-	distilled water during recons Rad recommo	titution a end that	as the protein may a the vial is gently m	appear as a film at the ixed after reconstitution.		
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)	)		
	RPE-Cy7 488nm laser	496		695			
Preparation	Purified IgG prepared supernatant	by affinity chr	omatogra	aphy on Protein G t	from tissue culture		
Buffer Solution	Phosphate buffered sa	lline					
Preservative Stabilisers	0.09% sodium azide (N	NaN <sub>3</sub> )					

	1% bovine serum albumin		
	5% sucrose		
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>		
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.		
Specificity	<b>Rat anti Dog CD4 antibody, clone YKIX302.9</b> , is a monoclonal antibody specific for 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 CA13.1		
	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 ( <u>Watson <i>et al.</i> 1993</u> ).		
	Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocyte subsets ( <u>Moore <i>et al.</i> 1992</u> ).		
Flow Cytometry	Use 10µl of the suggested working dilution to label $1 \times 10^6$ cells in $100$ µl		
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Storage

Prior to reconstitution store at  $+4^{\circ}$ C. After reconstitution store at  $+4^{\circ}$ C.

DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive

	and should be protected from light.		
Guarantee	12 months from date of despatch		
Acknowledgements	Cy and CyDye are trademarks of GE Healthcare.		
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1038PECY7 20487		
Regulatory	For research purposes only		

## Related Products

### **Recommended Negative Controls**

### RAT IgG2a NEGATIVE CONTROL:RPE-Cy7 (MCA6005PECY7)

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

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### Printed on 29 Apr 2024

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