

## Datasheet: MCA55P647

Description:	MOUSE ANTI RAT CD4 (DOMAIN 1):RPE-Alexa Fluor® 647		
Specificity:	CD4 (DOMAIN 1)		
Format:	RPE-ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	W3/25		
Isotype:	lgG1		
Quantity:	100 TESTS/1ml		

## **Product Details**

RRID	AB_871975						
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 - 1/10		
	exclude its use in suc	h procedures. Sugg e user titrates the a	ested wo	• •	e this does not necessarily en as a guide only. It is em using appropriate		
Target Species	Rat						
Product Form	Purified IgG conjugat	ed to R. Phycoeryth	rin (RPE)	- Alexa Fluor® 647 - I	yophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water						
Max Ex/Em	Fluorophore	Excitation Max (nm	) Emiss	ion Max (nm)			
	RPE-Alexa Fluor®647 488nm laser	496		667			
	RPE-Alexa Fluor®647 561nm laser	546		667			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum	1% Bovine Serum Albumin					
	5% Sucrose						
Immunogen	Rat Thymocyte Mem	orane Glycoproteins.					

External Database Links	UniProt: <u>P05540</u> <u>Related reagents</u> Entrez Gene: <u>24932</u> Cd4 <u>Related reagents</u>				
Fusion Partners	Spleen cells from immunized BALB/c mouse were fused with cells of the mouse NS-1 myeloma cell line.				
Specificity	<b>Mouse anti Rat CD4 antibody, clone W3/25</b> recognizes the rat CD4 cell surface glycoprotein, a ~55 kDa molecule expressed by helper T cells and weakly by monocytes. This antibody inhibits proliferation and IL-2 production in the MLR reaction.				
	Mouse anti Rat CD4 antibody, clone W3/25 has been described reacting with paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde) ( <u>Whiteland <i>et al.</i> 1995</u> ).				
	Mouse anti Rat CD4 antibody, clone W3/25 is routinely tested in flow cytometry on rat splenocytes.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.				
References	<ol> <li>Use 10ul of the suggested working dilution to label 10<sup>o</sup> cells in 100ul.</li> <li>1. Williams, A.F. <i>et al.</i> (1977) Analysis of cell surfaces by xenogeneic myeloma-hybrid antibodies: differentiation antigens of rat lymphocytes. <u>Cell. 12 (3): 663-73.</u></li> <li>2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. <u>Immunology. 42 (4): 593-600.</u></li> <li>3. Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. <u>J Histochem Cytochem. 43 (3): 313-20.</u></li> <li>4. Pelegrí, C. <i>et al.</i> (1995) Immunohistochemical changes in synovial tissue during the course of adjuvant arthritis. <u>J Rheumatol. 22 (1): 124-32.</u></li> <li>5. Hofmann, N. <i>et al.</i> (2002) Increased expression of ICAM-1, VCAM-1, MCP-1, and MIP-1 alpha by spinal perivascular macrophages during experimental allergic encephalomyelitis in rats. <u>BMC Immunol. 3: 11.</u></li> <li>6. Zilka, N. <i>et al.</i> (2009) Human misfolded truncated tau protein promotes activation of microglia and leukocyte infiltration in the transgenic rat model of tauopathy. <u>J Neuroimmunol. 209 (1-2): 16-25.</u></li> <li>7. Schwartzkopff, J. <i>et al.</i> (2010) NK cell depletion delays corneal allograft rejection in baby rats. <u>Mol Vis. 16: 1928-35.</u></li> <li>8. Banerjee, S. <i>et al.</i> (2003) Development of organised conjunctival leucocyte aggregates after corneal transplantation in rats. <u>Br J Ophthalmol. 87 (12): 1515-22.</u></li> <li>9. Bjersing, J.L. <i>et al.</i> (2002) Loss of ileal IgA+ plasma cells and of CD4+ lymphocytes in ileal Peyer's patches of vitamin A deficient rats. Clin Exp Immunol. 130 (3): 404-8.</li> </ol>				
Storage	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 reconstitution.				
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## **Health And Safety** Material Safety Datasheet documentation #10075 available at: Information 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf

Regulatory

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