

Datasheet: MCA453G BATCH NUMBER 162058

Description:	MOUSE ANTI RAT TCR ALPHA/BETA
Specificity:	TCR ALPHA/BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	R73
Isotype:	lgG1
Quantity:	0.25 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	•			1/50 - 1/100
	Immunohistology - Frozen	•			1/10 - 1/100
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation	•			
	Western Blotting				
	Where this antibody has necessarily exclude its us a guide only. It is recomn system using appropriate	se in such nended tha	procedure at the use	es. Suggested workin r titrates the antibody	g dilutions are given as
Target Species	Rat				
Species Cross Reactivity	Reacts with: Monkey, Cynomolgus monkey N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by supernatant	affinity ch	romatogra	aphy on Protein G fror	m tissue culture

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rat T blasts and erythrocytes.
RRID	AB_322435
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
Specificity	 Mouse anti Rat TCR alpha/beta antibody, clone R73 recognizes a constant determinant on the beta chain of the rat alpha/beta T cell receptor, expressed by 97% of peripheral rat T cells as defined by the OX-52 marker. R73 is mitogenic for unseparated spleen cells and for purified T cells. In the rat thymus, mature medullary cells express the R73 determinant at the same levels as peripheral T cells, whereas 94% of CD4 - CD8 - thymocytes are R73 negative. Mouse anti Rat TCR alpha/beta antibody, clone R73 is reported to stimulate adhesion between Thymic Dendritic Cells and Thymocytes (Colic <i>et al.</i> 2010).
Flow Cytometry	Use 10ul of the suggested working dilution to label 100ul of whole blood or 10 ⁶ cells in 100ul.
References	 Tomida, S. <i>et al.</i> (1994) Intercellular adhesion molecule-1 and leukocyte function- associated antigen-1 are involved in protection mediated by CD3+TCR alpha beta- T cells at the early stage after infection with Listeria monocytogenes in rats. Int Immunol. 6 (7): <u>955-61.</u> Colić, M. <i>et al.</i> (1996) Mechanisms involved in the binding of thymocytes to rat thymic dendritic cells. <u>Dev Immunol. 5 (1): 37-51.</u> Kanellis, J. <i>et al.</i> (2010) JNK signalling in human and experimental renal ischaemia/reperfusion injury. <u>Nephrol Dial Transplant. 25: 2898-908.</u> Nave, H. <i>et al.</i> (2008) Resistance of Janus kinase-2 dependent leptin signaling in natural killer (NK) cells: a novel mechanism of NK cell dysfunction in diet-induced obesity. <u>Endocrinology. 149: 3370-8.</u> Tsuchida, M. <i>et al.</i> (1994) Identification of CD4- CD8- alpha beta T cells in the subarachnoid space of rats with experimental autoimmune encephalomyelitis. A possible route by which effector cells invade the lesions. <u>Immunology. 81 (3): 420-7.</u> Matsumoto, Y. <i>et al.</i> (1994) Successful prevention and treatment of autoimmune encephalomyelitis by short-term administration of anti-T-cell receptor alpha beta antibody. <u>Immunology. 81 (1): 1-7.</u> Pilipović, I. <i>et al.</i> (2010) Glucocorticoids, master modulators of the thymic

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StorageThis product is shipped at ambient temperature. It is recommended to aliquot and store at
-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for
short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

	Avoid repeated freezing and thawing as this may denature the antibody. Storage frost-free freezers is not recommended.	e in
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA453G 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>		
	DyLight®650, DyLight®680, DyLight®800,		
	FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	FITC		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Recommended Negative Controls			

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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-ra	d.com	Email: antibody_sales_uk@bio-ra	d.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 'M384049:210513'

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