Datasheet: MCA1767T BATCH NUMBER 1808

Description:	RAT ANTI MOUSE CD4		
Specificity:	CD4		
Other names:	L3T4 ANTIGEN, LY-4		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	YTS191.1		
Isotype:	lgG2b		
Quantity:	25 µg		

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>.

		0010.			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				1/50 - 1/100
	Immunohistology - Frozen				
	(1)	-			
	Immunohistology - Paraffin				
	ELISA			•	
	Immunoprecipitation				
	Western Blotting				
	Where this antibody has not been tested for use in a particular technique this do				
	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. (1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.				
Target Species	Mouse				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by supernatant	affinity c	hromatog	raphy on Protein G fro	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
External Database Links	UniProt: <u>P06332</u> <u>Related reagents</u> Entrez Gene:
	12504 Cd4 Related reagents
RRID	AB_1101991
Specificity	Rat anti Mouse CD4 antibody, clone YTS191.1 recognizes the murine CD4 cell surface antigen, expressed by a subset of T lymphocytes.
	Rat anti Mouse CD4 antibody, clone YTS191.1 exhibits depleting activity when used <i>in vivo</i> (Bemelman <i>et al.</i> 1998).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Cobbold, S.P. <i>et al.</i> (1990) The induction of skin graft tolerance in major histocompatibility complex-mismatched or primed recipients: primed T cells can be tolerized in the periphery with anti-CD4 and anti-CD8 antibodies. <u>Eur J Immunol. 20 (12)</u>: <u>2747-55.</u> Bemelman, F. <i>et al.</i> (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. <u>J Immunol. 160 (6)</u>: 2645-8. Higgins, L.M. <i>et al.</i> (1999) Regulation of T cell activation in vitro and in vivo by targeting the OX40-OX40 ligand interaction: amelioration of ongoing inflammatory bowel disease with an OX40-IgG fusion protein, but not with an OX40 ligand-IgG fusion protein. <u>J Immunol. 162 (1): 486-93.</u> Croxford, J.L. <i>et al.</i> (2001) Different therapeutic outcomes in experimental allergic encephalomyelitis dependent upon the mode of delivery of IL-10: a comparison of the effects of protein, adenoviral or retroviral IL-10 delivery into the central nervous system. <u>J Immunol. 166: 4124-30.</u> Eller, K. <i>et al.</i> (2011) IL-9 production by regulatory T cells recruits mast cells that are essential for regulatory T cell-induced immune suppression. <u>J Immunol. 186: 83-91.</u> Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha-/- mice implicates compensatory up-regulation of Th2-type cytokines. <u>Am J Pathol. 173: 119-29.</u> Grimm, M.<i>et al.</i> (2010) Evaluation of immunological escape mechanisms in a mouse model of colorectal liver metastases. <u>BMC Cancer. 10: 82.</u> Jégou, J.F. <i>et al.</i> (2007) C3d Binding to the Myelin Oligodendrocyte Glycoprotein

	Results in an Exacerbated Experimental Autoimmune Encepha 3323-31.	alomyelitis <u>J Immunol. 178:</u>			
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	early spinal cord vulnerability in CLN1 disease. Sci Rep. 10 (1)	-			
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	lipofuscinosis in mice before and after disease onset Brain Cor				
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. Avoid repea	• •			
	as this may denature the antibody. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1767T 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>
Goat Anti Rat IgG (STAR72)	<u>HRP</u>
Goat Anti Rat IgG (STAR69)	<u>FITC</u>
Goat Anti Rat IgG (STAR73)	<u>RPE</u>
Rabbit Anti Rat IgG (STAR21)	<u>HRP</u>

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®550, DyLight®650, DyLight®800 Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

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@b	io-rad.com	Email: antibody_sales_uk@bio	o-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 M365695:200529'

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