

Datasheet: MCA1768F

Description:	RAT ANTI MOUSE CD8:FITC
Specificity:	CD8
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	YTS169.4
Isotype:	lgG2b
Quantity:	0.1 mg

Product Details

Applications	This product has been derived from testing with	his product has been reported to work in the following applications. This information is erived from testing within our laboratories, peer-reviewed publications or personal				
	communications from t	he originators	s. Please	e refer to references	indicated for further	
	information. For genera	al protocol rec	commen	dations, please visit	www.bio-	
	rad-antibodies.com/pro	tocols.				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			Neat - 1/2	
	Where this product has	s not been tes	sted for u	use in a particular te	echnique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is recon system using appropria	nmended that ate negative/p	t the use ositive c	er titrates the produc controls.	ct for use in their own	
Target Species	Mouse					
Product Form	Purified IgG conjugated	d to Fluoresce	ein Isoth	iocyanate Isomer 1	(FITC) - liquid	
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)		
	FITC	490		525	_	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% sodium azide (NaN ₃)					
Stabilisers	1% bovine serum albumin					
Approx. Protein Concentrations	IgG concentration 0.1 r	mg/ml				

External Database Links	UniProt: $P01731$ Related reagents $P10300$ Related reagentsEntrez Gene: 12525 Cd8aRelated reagents 12526 Cd8b1Related reagents			
Synonyms	Cd8b1, Ly-3, Lyt2, Lyt-2, Lyt3, Lyt-3			
Specificity	Rat anti Mouse CD8 antibody, clone YTS169.4 recognizes the murine CD8 cell surface antigen, expressed by a subset of T lymphocytes.Rat anti Mouse CD8 antibody, clone YTS169.4 exhibits depleting activity when used <i>in vivo</i> .			
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/BUF041B</u>).			
References	 The Fc region of monoclonal antibodies may bind to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/BUF041B</u>). 1. Cobbold, S.P. <i>et al.</i> (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets <i>in vivo</i>. <u>Nature</u>. 312 (5994): 548-51. 2. 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</u>. 20 (12): 2747-55. 3. Wise, M.P. <i>et al.</i> (1998) Linked suppression of skin graft rejection can operate through indirect recognition. J Immunol. 161 (11): 5813-6. 4. Bemelman, F. <i>et al.</i> (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. J Immunol. 160 (6): 2645-8. 5. 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. J Immunol. 169 (10): 5997-6004. 7. Scottand, R.S. <i>et al.</i> (2011) Sex-differences in resident immune cell phenotype underlies more efficient acute inflammatory responses in female mice. <u>Blood. 118</u>; 5918-27. 8. Zirger, J.M. <i>et al.</i> (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFNy, perforin, and TNFα, and due to the elimination of transduced cells. <u>Mol Ther. 20 (4)</u>; 808-19. 9. Abd-elhakim, Y.M. <i>et al.</i> (2016) Hemato-immunologic impact of subchronic exposure to melamine and/or formaldehyde in mice. J Immunotoxicol, 13 (5); 713-22. 10. Matsubara, K. <i>et al.</i> (2016) Immune activation during the implantation phase causes preeclampsia-like symptoms via the CD40-CD40 ligand pathway in pregnant mice. Hypertens Pess. 39 (6): 407-14			

	 de Souza, T.A. <i>et al.</i> (2018) Relationship between the inflammicroenvironment and different histologic types of canine maminated the inflammicroenvironment and different histologic types of canine maminated to the inflammicroenvironment and different histologic types of canine maminated to the inflammicroenvironment and different histologic types of canine maminated to the inflammative proteomic profiling early spinal cord vulnerability in CLN1 disease. Sci Rep. 10 (1) 13. Lejeune, P. <i>et al.</i> (2021) Immunostimulatory effects of target as single agent and in combination with anti-PD-L1 therapy. Jule (10):e002387. Nelke, C. <i>et al.</i> (2023) K(2P)2.1 is a regulator of inflammatice idiopathic inflammatory myopathies. J Autoimmun. 142: 103136 15. Mahadevan, K.K. <i>et al.</i> (2023) Antigen-presenting type-I confacilitate curative checkpoint blockade immunotherapy in paner. <u>06 [Epub ahead of print].</u> El-Rahman, G.I.A. <i>et al.</i> (2020) <i>Saussurea lappa</i> Ethanolic Triamcinolone Acetonide-Induced Pulmonary and Splenic Tissue. Madulation of Oxidative Stress. Inflammation and Americana. 	nmatory tumor mary tumors. <u>Res Vet Sci.</u> g reveals mechanisms for <u>: 15157.</u> ted thorium-227 conjugates <u>mmunother Cancer.</u> ory cell responses in <u>5.</u> nventional dendritic cells eatic cancer. <u>bioRxiv. Mar</u> Extract Attenuates ue Damage in Rats via
	Modulation of Oxidative Stress, Inflammation, and Apoptosis. <u>A</u> <u>396.</u>	<u>ntioxidants (Basel). 9 (5):</u>
Storage	This product is shipped at ambient temperature. It is recommer -20°C on receipt. When thawed, aliquot the sample as needed. short term use (up to 4 weeks) and store the remaining aliquots	nded to aliquot and store at Keep aliquots at 2-8°C for s at -20°C.
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photose protected from light.	antibody. Storage in ensitive and should be
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1768F 10041	
Regulatory	For research purposes only	

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BL	JF041A)
MOUSE SEROBLOCK FcR (BL	JF041B)

North & South	Tel: +1 800 265 7376 World	ldwide	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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411434:221103'

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