

Datasheet: MCA1768F

Description:	RAT ANTI MOUSE CD8:FITC		
Specificity:	CD8		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	YTS169.4		
lsotype:	lgG2b		
Quantity:	0.1 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat - 1/2

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as 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	Mouse			
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	niocyanate Isomer 1	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm	
	FITC	490	525	
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G	
Buffer Solution	Phosphate buffered saline			
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albu	umin		
Approx. Protein Concentrations	IgG concentration 0.1	mg/ml		

External Database Links

UniProt:

P01731 Related reagents
P10300 Related reagents

Entrez Gene:

12525 Cd8a Related reagents12526 Cd8b1 Related 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 *in vivo*.

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ 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

- 1. Cobbold, S.P. *et al.* (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets *in vivo*. Nature. 312 (5994): 548-51.
- 2. Cobbold, S.P. *et al.* (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): 2747-55.</u>
- 3. Wise, M.P. *et al.* (1998) Linked suppression of skin graft rejection can operate through indirect recognition. <u>J Immunol. 161 (11): 5813-6.</u>
- 4. Bemelman, F. *et al.* (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. <u>J Immunol. 160 (6): 2645-8.</u>
- 5. Higgins, L.M. *et al.* (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>
- 6. Jaffar, Z. *et al.* (2002) A key role for prostaglandin I2 in limiting lung mucosal Th2, but not Th1, responses to inhaled allergen. <u>J Immunol. 169 (10): 5997-6004.</u>
- 7. Scotland, R.S. *et al.* (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. *et al.* (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFN γ , perforin, and TNF α , and due to the elimination of transduced cells. <u>Mol Ther. 20 (4): 808-19.</u>
- 9. Abd-elhakim, Y.M. *et al.* (2016) Hemato-immunologic impact of subchronic exposure to melamine and/or formaldehyde in mice. <u>J Immunotoxicol. 13 (5): 713-22.</u>
- 10. Matsubara, K. *et al.* (2016) Immune activation during the implantation phase causes preeclampsia-like symptoms via the CD40-CD40 ligand pathway in pregnant mice. Hypertens Res. 39 (6): 407-14.

- 11. de Souza, T.A. *et al.* (2018) Relationship between the inflammatory tumor microenvironment and different histologic types of canine mammary tumors. <u>Res Vet Sci.</u> 119: 209-14.
- 12. Nelvagal, H.R. *et al.* (2020) Comparative proteomic profiling reveals mechanisms for early spinal cord vulnerability in CLN1 disease. <u>Sci Rep. 10 (1): 15157.</u>
- 13. Lejeune, P. *et al.* (2021) Immunostimulatory effects of targeted thorium-227 conjugates as single agent and in combination with anti-PD-L1 therapy. <u>J Immunother Cancer</u>. (10):e002387.
- 14. Nelke, C. *et al.* (2023) K(2P)2.1 is a regulator of inflammatory cell responses in idiopathic inflammatory myopathies. <u>J Autoimmun</u>. 142: 103136.

Storage

This 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 in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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 (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide Te

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

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'

Printed on 23 Nov 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint

Email: antibody_sales_us@bio-rad.com