

Datasheet: MCA1768PE

Description:	RAT ANTI MOUSE CD8:RPE		
Specificity:	CD8		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	YTS169.4		
Isotype:	lgG2b		
Quantity:	100 TESTS		

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

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 R. Phycoerythrin	(RPE) - lyophilized
econstitution	Reconstitute with 1 m	l distilled water	
/lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	RPE 488nm laser	496	578
paration	Purified IgG prepared supernatant	by affinity chromatogr	raphy on Protein G
er Solution	Phosphate buffered s	aline	
eservative	0.09% sodium azide ((NaN ₃)	
reservative tabilisers	0.09% sodium azide (1% bovine serum albi	. 0,	

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

RRID

AB_323656

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 10 μ l of the suggested working dilution to label 10 6 cells in 100 μ l.

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

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- 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):</u> 2747-55.
- 3. Wise, M.P. *et al.* (1998) Linked suppression of skin graft rejection can operate through indirect recognition. J Immunol. 161 (11): 5813-6.
- 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</u> Immunol. 162 (1): 486-93.
- 6. Jaffar, Z. *et al.* (2002) A key role for prostaglandin I2 in limiting lung mucosal Th2, but not Th1, responses to inhaled allergen. J Immunol. 169 (10): 5997-6004.
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- 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. Mol Ther. 20 (4): 808-19.
- 9. Abd-elhakim, Y.M. et al. (2016) Hemato-immunologic impact of subchronic exposure to melamine and/or formaldehyde in mice. J Immunotoxicol. 13 (5): 713-22.
- 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. 142: 103136.</u>
- 15. Mahadevan, K.K. *et al.* (2023) Antigen-presenting type-I conventional dendritic cells facilitate curative checkpoint blockade immunotherapy in pancreatic cancer. <u>bioRxiv. Mar 06 [Epub ahead of print].</u>
- 16. El-Rahman, G.I.A. *et al.* (2020) *Saussurea lappa* Ethanolic Extract Attenuates Triamcinolone Acetonide-Induced Pulmonary and Splenic Tissue Damage in Rats via Modulation of Oxidative Stress, Inflammation, and Apoptosis. <u>Antioxidants (Basel). 9 (5): 396.</u>

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 despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1768PE 20487
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

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

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

Fax: +1 919 878 3751

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 'M419451:230616'

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