

# Datasheet: MCA1768PE

**BATCH NUMBER 151279**

<b>Description:</b>	RAT ANTI MOUSE CD8:RPE
<b>Specificity:</b>	CD8
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTS169.4
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
	5%	Sucrose	

**External Database  
Links**

**UniProt:**

[P01731](#)    [Related reagents](#)  
[P10300](#)    [Related reagents](#)

**Entrez Gene:**

[12525](#)    Cd8a    [Related reagents](#)  
[12526](#)    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 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

**References**

1. 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. [Eur J Immunol. 20 \(12\): 2747-55.](#)
2. Bemelman, F. *et al.* (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. [J Immunol. 160 \(6\): 2645-8.](#)
3. Cobbold SP *et al.* (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets *in vivo*. [Nature. 312 \(5994\): 548-51.](#)
4. Wise, M.P. *et al.* (1998) Linked suppression of skin graft rejection can operate through indirect recognition. [J Immunol. 161 \(11\): 5813-6.](#)
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. [J Immunol. 162 \(1\): 486-93.](#)
6. Scotland, R.S. *et al.* (2011) Sex-differences in resident immune cell phenotype underlies more efficient acute inflammatory responses in female mice. [Blood. 118: 5918-27.](#)
7. 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.](#)
8. 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.](#)
9. Zirger, J.M. *et al.* (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFN $\gamma$ , perforin, and TNF $\alpha$ , and due to

the elimination of transduced cells. [Mol Ther. 20 \(4\): 808-19.](#)

10. 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.](#)

11. Lejeune, P. *et al.* (2021) Immunostimulatory effects of targeted thorium-227 conjugates as single agent and in combination with anti-PD-L1 therapy. [J Immunother Cancer. \(10\):e002387.](#)

12. Nelvagal, H.R. *et al.* (2020) Comparative proteomic profiling reveals mechanisms for early spinal cord vulnerability in CLN1 disease. [Sci Rep. 10 \(1\): 15157.](#)

13. de Souza, T.A. *et al.* (2018) Relationship between the inflammatory tumor microenvironment and different histologic types of canine mammary tumors. [Res Vet Sci. 119: 209-14.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1768PE>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South America**

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto: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](mailto: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](https://www.bio-rad-antibodies.com/datasheets)

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