

# Datasheet: MCA1768T

**BATCH NUMBER 1612**

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

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P01731</a>      <a href="#">Related reagents</a></p> <p><a href="#">P10300</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">12525</a>   Cd8a   <a href="#">Related reagents</a></p> <p><a href="#">12526</a>   Cd8b1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Cd8b1, Ly-3, Lyt2, Lyt-2, Lyt3, Lyt-3
<b>RRID</b>	AB_1102357
<b>Specificity</b>	<p><b>Rat anti Mouse CD8 antibody, clone YTS169.4</b> recognizes the murine CD8 cell surface antigen, expressed by a subset of T lymphocytes.</p> <p>Rat anti Mouse CD8 antibody, clone YTS169.4 exhibits depleting activity when used <i>in vivo</i>.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Eur J Immunol. 20 (12): 2747-55.</a></li> <li>2. Bemelman, F. <i>et al.</i> (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. <a href="#">J Immunol. 160 (6): 2645-8.</a></li> <li>3. Cobbold SP <i>et al.</i> (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets <i>in vivo</i>. <a href="#">Nature. 312 (5994): 548-51.</a></li> <li>4. Wise, M.P. <i>et al.</i> (1998) Linked suppression of skin graft rejection can operate through indirect recognition. <a href="#">J Immunol. 161 (11): 5813-6.</a></li> <li>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. <a href="#">J Immunol. 162 (1): 486-93.</a></li> <li>6. Scotland, R.S. <i>et al.</i> (2011) Sex-differences in resident immune cell phenotype underlies more efficient acute inflammatory responses in female mice. <a href="#">Blood. 118: 5918-27.</a></li> <li>7. 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. <a href="#">Hypertens Res. 39 (6): 407-14.</a></li> <li>8. Jaffar, Z. <i>et al.</i> (2002) A key role for prostaglandin I2 in limiting lung mucosal Th2, but not Th1, responses to inhaled allergen. <a href="#">J Immunol. 169 (10): 5997-6004.</a></li> <li>9. Zirger, J.M. <i>et al.</i> (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFN<math>\gamma</math>, perforin, and TNF<math>\alpha</math>, and due to</li> </ol>

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. Ismail, S.A.A. (2017) Ameliorative Potential of *Spirulina platensis* against Lead Acetate Induced Immuno-Suppression and Kidney Apoptosis in Rats [Ann Clin Pathol 5\(5\): 1120.](#)

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.](#)

<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1768T">https://www.bio-rad-antibodies.com/SDS/MCA1768T</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

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