

## Datasheet: MCA1108G

<b>Description:</b>	RAT ANTI MOUSE CD8
<b>Specificity:</b>	CD8 ALPHA
<b>Other names:</b>	LY-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTS105.18
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 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](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			▪	
Immunofluorescence	▪			

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 mg/ml
<b>Immunogen</b>	Mouse spleen cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01731</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">12525</a> Cd8a    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Lyt2, Lyt-2
<b>RRID</b>	AB_322819
<b>Fusion Partners</b>	Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse CD8, clone YTS105.18</b> recognizes a non polymorphic epitope on the mouse CD8 alpha chain. This antibody has been reported to block MHC I dependent T cell responses <i>in vitro</i> and <i>in vivo</i> , and induces transplantation tolerance in combination with CD4 antibodies ( <a href="#">Cobbold et al. 1990</a> & <a href="#">Wise et al. 1998</a> ).
<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. Qin, S.X. <i>et al.</i> (1990) Induction of tolerance in peripheral T cells with monoclonal antibodies. <a href="#">Eur J Immunol. 20 (12): 2737-45.</a></li> <li>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. <a href="#">Eur J Immunol. 20 (12): 2747-55.</a></li> <li>3. 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>4. Lacroix-Lamande, S. <i>et al.</i> (2009) Neonate intestinal immune response to CpG oligodeoxynucleotide stimulation. <a href="#">PLoS One. 4: 1-8.</a></li> <li>5. Auray, G. <i>et al.</i> (2007) Involvement of intestinal epithelial cells in dendritic cell recruitment during <i>C. parvum</i> infection <a href="#">Microbes Infect. 9: 574-82.</a></li> <li>6. Sroga, J.M. <i>et al.</i> (2003) Rats and mice exhibit distinct inflammatory reactions after spinal cord injury. <a href="#">J Comp Neurol. 462: 223-40.</a></li> <li>7. Karlsson, M.R. <i>et al.</i> (2010) Hypersensitivity and oral tolerance in the absence of a secretory immune system. <a href="#">Allergy. 65: 561-70.</a></li> <li>8. Himoudi, N. <i>et al.</i> (2007) Development of anti-PAX3 immune responses; a target for cancer immunotherapy <a href="#">Cancer Immunol Immunother. 56: 1381-95.</a></li> <li>9. Nakashima, H. <i>et al.</i> (2011) A Novel Combination Immunotherapy for Cancer by IL-13R<math>\alpha</math>2-Targeted DNA Vaccine and Immunotoxin in Murine Tumor Models. <a href="#">J Immunol.</a></li> </ol>

[187: 4935-46.](#)

10. Shaw, T.N. *et al.* (2015) Perivascular Arrest of CD8+ T Cells Is a Signature of Experimental Cerebral Malaria. [PLoS Pathog. 11 \(11\): e1005210.](#)

11. Jalili, R.B. *et al.* (2018) Fibroblast cell-based therapy prevents induction of alopecia areata in an experimental model. [Cell Transplant. 27 \(6\): 994-1004.](#)

12. Zhao, Q. *et al.* (2019) Tumor-targeted IL-12 combined with tumor resection yields a survival-favorable immune profile. [J Immunother Cancer. 7 \(1\): 154.](#)

13. Mohanta, S.K. *et al.* (2022) Neuroimmune cardiovascular interfaces control atherosclerosis. [Nature. Apr 27 \[Epub ahead of print\].](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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