

## Datasheet: MCA1108G

**BATCH NUMBER 156530**

<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</b>	0.09% Sodium Azide

## Stabilisers

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Carrier Free Yes

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Approx. Protein Concentrations IgG concentration 1 mg/ml

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Immunogen Mouse spleen cells.

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## External Database Links

**UniProt:**  
[P01731](#)   [Related reagents](#)

**Entrez Gene:**  
[12525](#) Cd8a   [Related reagents](#)

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Synonyms Lyt2, Lyt-2

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RRID AB\_322819

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Fusion Partners Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.

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Specificity **Rat anti Mouse CD8, clone YTS105.18** recognizes a non polymorphic epitope on the mouse CD8 alpha chain. This antibody has been reported to block MHC I dependent T cell responses *in vitro* and *in vivo*, and induces transplantation tolerance in combination with CD4 antibodies ([Cobbold et al. 1990](#) & [Wise et al. 1998](#)).

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Flow Cytometry Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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## References

1. Qin, S.X. *et al.* (1990) Induction of tolerance in peripheral T cells with monoclonal antibodies. [Eur J Immunol. 20 \(12\): 2737-45.](#)
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. [Eur J Immunol. 20 \(12\): 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. Lacroix-Lamande, S. *et al.* (2009) Neonate intestinal immune response to CpG oligodeoxynucleotide stimulation. [PLoS One. 4: 1-8.](#)
5. Auray, G. *et al.* (2007) Involvement of intestinal epithelial cells in dendritic cell recruitment during *C. parvum* infection [Microbes Infect. 9: 574-82.](#)
6. Sroga, J.M. *et al.* (2003) Rats and mice exhibit distinct inflammatory reactions after spinal cord injury. [J Comp Neurol. 462: 223-40.](#)
7. Karlsson, M.R. *et al.* (2010) Hypersensitivity and oral tolerance in the absence of a secretory immune system. [Allergy. 65: 561-70.](#)
8. Himoudi, N. *et al.* (2007) Development of anti-PAX3 immune responses; a target for cancer immunotherapy [Cancer Immunol Immunother. 56: 1381-95.](#)
9. Nakashima, H. *et al.* (2011) A Novel Combination Immunotherapy for Cancer by

IL-13R $\alpha$ 2-Targeted DNA Vaccine and Immunotoxin in Murine Tumor Models. [J Immunol. 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.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1108G>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)

[FITC](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)[DyLight®550](#), [DyLight®650](#), [DyLight®800](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR131...)

[Alk. Phos.](#), [Biotin](#)

Rabbit Anti Rat IgG (STAR17...)

[FITC](#)

Goat Anti Rat IgG (STAR72...)

[HRP](#)

### Recommended Negative Controls

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

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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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