

Datasheet: MCA1108GT

BATCH NUMBER 161573

| | |
|----------------------|---------------------|
| Description: | RAT ANTI MOUSE CD8 |
| Specificity: | CD8 ALPHA |
| Other names: | LY-2 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | YTS105.18 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

| | |
|------------------------|---|
| Target Species | Mouse |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative | 0.09% Sodium Azide |

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1 mg/ml

Immunogen Mouse spleen cells.

External Database Links

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

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

Synonyms Lyt2, Lyt-2

RRID AB_1102359

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

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](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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 α 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.](#)

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 \[Epub ahead of print\].](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1108GT>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)

[DyLight@800](#)

Rabbit Anti Rat IgG (STAR17...)

[FITC](#)

Goat Anti Rat IgG (STAR72...)

[HRP](#)

Goat Anti Rat IgG (STAR69...)

[FITC](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

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

Goat Anti Rat IgG (STAR131...)

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

Recommended Negative Controls

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

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