

Datasheet: MCA1108G

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

	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 Stabilisers	0.09% Sodium Azide
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

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-13Rα2-Targeted DNA Vaccine and Immunotoxin in Murine Tumor Models. [J Immunol. 187: 4935-46.](#)
10. Scott-Taylor, T.H. *et al.* (2017) Enhanced formation of giant cells in common variable immunodeficiency: Relation to granulomatous disease. [Clin Immunol. 175: 1-9.](#)
11. Shaw, T.N. *et al.* (2015) Perivascular Arrest of CD8+ T Cells Is a Signature of Experimental Cerebral Malaria. [PLoS Pathog. 11 \(11\): e1005210.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

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

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