Datasheet: MCA1768T

BATCH NUMBER 157955

Description:	RAT ANTI MOUSE CD8
Specificity:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YTS169.4
Isotype:	IgG2b
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			▪	

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 1.0 mg/ml
External Database Links	**UniProt:** P01731 Related reagents P10300 Related reagents **Entrez Gene:** 12525 Cd8a Related reagents 12526 Cd8b1 Related reagents
Synonyms	Cd8b1, Ly-3, Lyt2, Lyt-2, Lyt3, Lyt-3
RRID	AB_1102357
Specificity	**Rat anti Mouse CD8 antibody, clone YTS169.4** recognizes the murine CD8 cell surface antigen, expressed by a subset of T lymphocytes. Rat anti Mouse CD8 antibody, clone YTS169.4 exhibits depleting activity when used *in vivo*.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. 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. 2. Bemelman, F. *et al.* (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. J Immunol. 160 (6): 2645-8. 3. Cobbold SP *et al.* (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets *in vivo*. Nature. 312 (5994): 548-51. 4. Wise, M.P. *et al.* (1998) Linked suppression of skin graft rejection can operate through indirect recognition. J Immunol. 161 (11): 5813-6. 5. Higgins, L.M. *et al.* (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. J Immunol. 162 (1): 486-93. 6. Scotland, R.S. *et al.* (2011) Sex-differences in resident immune cell phenotype underlies more efficient acute inflammatory responses in female mice. Blood. 118: 5918-27. 7. Matsubara, K. *et al.* (2016) Immune activation during the implantation phase causes preeclampsia-like symptoms via the CD40-CD40 ligand pathway in pregnant mice. Hypertens Res. 39 (6): 407-14. 8. Jaffar, Z. *et al.* (2002) A key role for prostaglandin I2 in limiting lung mucosal Th2, but not Th1, responses to inhaled allergen. J Immunol. 169 (10): 5997-6004. 9. Zirger, J.M. *et al.* (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFNγ, perforin, and TNFα, and due to

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.

Storage	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.
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/MCA1768T 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

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