

Datasheet: MCA1768A647

BATCH NUMBER 1807

Description:	RAT ANTI MOUSE CD8:Alexa Fluor® 647
Specificity:	CD8
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	YTS169.4
Isotype:	IgG2b
Quantity:	100 TESTS/1ml

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	▪			Neat - 1/5

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 conjugated to Alexa Fluor 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
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 (NaN ₃)		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 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

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 10⁶ cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#))

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 IFN γ , perforin, and TNF α , 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.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1768A647>
10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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