



Datasheet: MCA1226P647T

Description:	MOUSE ANTI HUMAN CD8:RPE-Alexa Fluor® 647
Specificity:	CD8
Format:	RPE-ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	LT8
Isotype:	IgG1
Quantity:	25 TESTS

Product Details

RRID AB_1102352

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 - 1/10

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 Human

Species Cross Reactivity Reacts with: Marmoset, Chimpanzee, Cynomolgus monkey, Red-bellied Tamarin
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 647 - lyophilized

Reconstitution Reconstitute in 0.25 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE-Alexa Fluor®647 488nm laser	496	667
	RPE-Alexa Fluor®647 561nm laser	546	667

Preparation Purified IgG prepared by ion exchange chromatography

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide

Stabilisers 1% Bovine Serum Albumin

Immunogen Normal human peripheral blood lymphocytes.

External Database Links

UniProt:

[P01732](#) [Related reagents](#)
[P10966](#) [Related reagents](#)

Entrez Gene:

[925](#) CD8A [Related reagents](#)
[926](#) CD8B [Related reagents](#)

Synonyms CD8B1, MAL

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.

Specificity **Mouse anti Human CD8 antibody, clone LT8** recognizes the human CD8 cell surface glycoprotein expressed by a subset of peripheral blood T cells which express cytotoxic/suppressor activity. It is also expressed weakly on NK cells.

The CD8 antigen is a co-receptor for MHC Class I in conjunction with the T cell receptor, and is important in the selection process of CD8+ MHC Class I restricted T cells.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul human whole blood

References

1. Zarkesh-Esfahani, H. *et al.* (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. [J Immunol. 167 \(8\): 4593-9.](#)
2. Manninen, A. & Saksela, K. (2002) HIV-1 Nef interacts with inositol trisphosphate receptor to activate calcium signaling in T cells. [J Exp Med. 195 \(8\): 1023-32.](#)
3. Parnes, J.R. (1989) Molecular biology and function of CD4 and CD8. [Adv Immunol. 44: 265-311.](#)
4. Kap, Y.S. *et al.* (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. [J Histochem Cytochem. 57: 1159-67.](#)
5. Hovden, A.O. *et al.* (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. [BMC Immunol. 12: 2.](#)
6. Nelson, M. *et al.* (2010) Characterization of lethal inhalational infection with *Francisella tularensis* in the common marmoset (*Callithrix jacchus*). [J Med Microbiol. 59: 1107-13.](#)
7. Gibbings, D.J. *et al.* (2007) CD8 alpha is expressed by human monocytes and enhances Fc gamma R-dependent responses. [BMC Immunol. 8: 12.](#)
8. Junker, A. *et al.* (2007) Multiple sclerosis: T-cell receptor expression in distinct brain regions. [Brain. 130: 2789-99.](#)
9. Held, K. *et al.* (2011) Expression of herpes simplex virus 1-encoded microRNAs in human trigeminal ganglia and their relation to local T-cell infiltrates. [J Virol. 85 \(19\): 9680-5.](#)
10. Hood SP *et al.* (2014) Changes in immune cell populations in the periphery and liver of GBV-B-infected and convalescent tamarins (*Saguinus labiatus*). [Virus Res. 179: 93-101.](#)
11. Nelson, M. & Loveday, M. (2014) Exploring the innate immunological response of an alternative nonhuman primate model of infectious disease; the common marmoset. [J Immunol Res. 2014: 913632.](#)
12. Manivannan, K. *et al.* (2016) CADM1/TSLC1 Identifies HTLV-1-Infected Cells and Determines Their Susceptibility to CTL-Mediated Lysis. [PLoS Pathog. 12 \(4\): e1005560.](#)
13. Gross, C.C. *et al.* (2016) Impaired NK-mediated regulation of T-cell activity in multiple sclerosis is reconstituted by IL-2 receptor modulation. [Proc Natl Acad Sci U S A. 113 \(21\): E2973-82.](#)
14. Dunham, J. *et al.* (2016) Blockade of CD127 Exerts a Dichotomous Clinical Effect in Marmoset

Experimental Autoimmune Encephalomyelitis. [J Neuroimmune Pharmacol. 11 \(1\): 73-83.](#)
15. Bughani, U. *et al.* (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. [PLoS One. 12 \(7\): e0180088.](#)
16. Philippens, I.H. *et al.* (2017) Acceleration of Amyloidosis by Inflammation in the Amyloid-Beta Marmoset Monkey Model of Alzheimer's Disease. [J Alzheimers Dis. 55 \(1\): 101-113.](#)

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of reconstitution.

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE-Alexa Fluor® 647 \(MCA928P647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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'M352906:190408'

Printed on 08 Apr 2019

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