



Datasheet: MCA1226A488

Description:	MOUSE ANTI HUMAN CD8:Alexa Fluor® 488
Specificity:	CD8
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	LT8
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

RRID AB_324877

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 Alexa Fluor® 488 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519

Preparation Purified IgG prepared by ion exchange chromatography

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

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 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

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

18 months from date of despatch.

Acknowledgements

This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M352892:190408'

Printed on 30 May 2019