

## Datasheet: MCA1226A647

<b>Description:</b>	MOUSE ANTI HUMAN CD8:Alexa Fluor® 647
<b>Specificity:</b>	CD8
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LT8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this product 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 product 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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### 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 ion exchange chromatography from ascites

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% sodium azide (NaN<sub>3</sub>)

1% bovine serum albumin

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**Approx. Protein Concentrations** IgG concentration 0.05 mg/ml

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**Immunogen** Normal human peripheral blood lymphocytes.

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**External Database Links**

**UniProt:**

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

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

**Entrez Gene:**

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

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

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**Synonyms** CD8B1, MAL

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**RRID** AB\_324876

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

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**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.

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**Flow Cytometry** Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells or cells or 100µl human whole blood

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**References**

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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.](#)
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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.](#)

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1226A647>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

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

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

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