

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:	lgG1			
Quantity:	25 TESTS			

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 - 1/10

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: Marmose N.B. Antibody reactivi					
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 647 - Iyophili					
Reconstitution	Reconstitute in 0.25 ml disilled 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 sa					
Preservative	0.09% Sodium Azide					
Stabilisers	1% Bovine Serum	Albumin				
Immunogen	Normal human periph	eral blood lymphocyte	es.			

External Database Links

UniProt:

P01732 Related reagents
P10966 Related reagents

Entrez Gene:

925 CD8A Related reagents926 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

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- 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. <u>J Histochem Cytochem.</u> 57: 1159-67.
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- 11. Nelson, M. & Loveday, M. (2014) Exploring the innate immunological response of an alternative nonhuman primate model of infectious disease; the common marmoset. <u>J Immunol Res. 2014:</u> 913632.
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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. <u>Proc Natl Acad Sci U S A. 113 (21): E2973-82.</u>
- 14. Dunham, J. *et al.* (2016) Blockade of CD127 Exerts a Dichotomous Clinical Effect in Marmoset Experimental Autoimmune Encephalomyelitis. <u>J Neuroimmune Pharmacol. 11 (1): 73-83.</u>
- 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.

Shelf Life

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)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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