

Datasheet: MCA1226A700T

BATCH NUMBER 164964

Description:	MOUSE ANTI HUMAN CD8:Alexa Fluor® 700			
Specificity:	CD8			
Format:	ALEXA FLUOR® 700			
Product Type:	Monoclonal Antibody			
Clone:	LT8			
lsotype:	lgG1			
Quantity:	25 TESTS/0.25ml			

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 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	N.B. Antibody reac reactivity is derived	tivity and working condition of the string within our I	molgus monkey, Red-bellied Tan ions may vary between species. aboratories, peer-reviewed public ors. Please refer to references inc		
Product Form	Purified IgG conjugated to Alexa Fluor® 700 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®700	702	723		
Preparation	Purified IgG prepar	ed by affinity chromatog	raphy on Protein G from ascites		
Buffer Solution	Phosphate buffered	d saline			

Preservative Stabilisers	0.09% sodium azide (NaN $_3$) 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				
RRID	AB_1102348				
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 10µl of the suggested working dilution to label 10 ⁶ cells or cells or 100µl human whole blood				
References	 Zarkesh-Esfahani, H. <i>et al.</i> (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. <u>J Immunol. 167 (8): 4593-9.</u> Manninen, A. & Saksela, K. (2002) HIV-1 Nef interacts with inositol trisphosphate receptor to activate calcium signaling in T cells. <u>J Exp Med. 195 (8): 1023-32.</u> Parnes, J.R. (1989) Molecular biology and function of CD4 and CD8. <u>Adv Immunol. 44: 265-311.</u> Kap, Y.S. <i>et al.</i> (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. <u>J Histochem Cytochem. 57: 1159-67.</u> Hovden, A.O. <i>et al.</i> (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. <u>BMC Immunol. 12: 2.</u> Nelson, M. <i>et al.</i> (2010) Characterization of lethal inhalational infection with <i>Francisella tularensis</i> in the common marmoset (<i>Callithrix jacchus</i>). <u>J Med Microbiol. 59: 1107-13.</u> Gibbings, D.J. <i>et al.</i> (2007) CD8 alpha is expressed by human monocytes and 				

- enhances Fc gamma R-dependent responses. BMC Immunol. 8: 12.
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- 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. <u>J Virol. 85 (19):</u> 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*). <u>Virus Res. 179:</u> 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. <u>J. Immunol Res. 2014: 913632.</u>
- 12. Manivannan, K. *et al.* (2016) CADM1/TSLC1 Identifies HTLV-1-Infected Cells and Determines Their Susceptibility to CTL-Mediated Lysis. <u>PLoS Pathog. 12 (4): e1005560.</u>
- 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):</u> E2973-82.
- 14. Dunham, J. *et al.* (2016) Blockade of CD127 Exerts a Dichotomous Clinical Effect in Marmoset Experimental Autoimmune Encephalomyelitis. <u>J Neuroimmune Pharmacol. 11</u> (1): 73-83.
- 15. Bughani, U. *et al.* (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. <u>PLoS One.</u> 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. <u>J Alzheimers Dis. 55 (1):</u> 101-113.

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.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety

Material Safety Datasheet documentation #10041 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA1226A700T

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Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 700 (MCA928A700)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M408634:221013'

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Email: antibody_sales_us@bio-rad.com