

Datasheet: MCA1267AMO

Description:	MOUSE ANTI HUMAN CD4:Amethyst Orange
Specificity:	CD4
Format:	Amethyst Orange
Product Type:	Monoclonal Antibody
Clone:	RPA-T4
lsotype:	lgG1
Quantity:	0.1 mg

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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this product ha necessarily exclude its a guide only. It is reco system using appropri	s use in such mmended tha	procedure at the use	es. Suggested workir r titrates the product	ng dilutions are given as
Target Species	Human				
Product Form	Purified IgG conjugate	ed to Amethys	st Orange	- liquid	
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)	
	Amethyst Orange	405		540	
Preparation	Purified IgG prepared supernatant	by affinity ch	romatogra	aphy on Protein A fro	m tissue culture
Buffer Solution	Phosphate buffered sa	aline			
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin				
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml				
Immunogen	Human PHA blasts				

External Database						
Links	UniProt:					
	P01730 Related reagents					
	Entros Conos					
	Entrez Gene:					
	920 CD4 Related reagents					
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NSI myeloma cell line					
Specificity	 Mouse anti human CD4 antibody, clone RPA-T4 recognizes human CD4, a ~55 kDa cell surface glycoprotein, primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping shows that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1 of the extracellular region of the CD4 molecule. Mouse anti human CD4 antibody, clone RPA-T4 blocks gp120-CD4 interaction and inhibits syncytium formation (Piatier-Tonneau <i>et al</i>, 1997). The use of Mouse anti Human 					
	CD4:Low Endotoxin (MCA1267EL) is recommended for functional assays.					
Flow Cytometry	Use 10μ I of the suggested working dilution to label 10^6 cells or 100μ I whole blood					
References	 Piatier-Tonneau, D. (1997) CD4 workshop panel report. In: Leucocyte Typing VI: White Cell Differentiation Antigens: Proceedings of the Sixth International Workshop and Conference Held in Kobe, Japan, 10-14 November 1996. Garland Pub., 1998. Zarkesh-Esfahani, H. <i>et al.</i> (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. JImmunol. 167 (8): 4593-9. Wright, G.J. <i>et al.</i> (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. Immunology. 102 (2): 173-9. Pentón-Rol, G. <i>et al.</i> (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. Int Immunopharmacol. 11 (1): 29-38. Zhang, Y. <i>et al.</i> (2013) Accelerated <i>in vivo</i>. proliferation of memory phenotype CD4⁺ T-cells in human HIV-1 infection irrespective of viral chemokine co-receptor tropism. PLoS Pathog. 9 (4): e1003310. Bughani, U. <i>et al.</i> (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. PLoS One. 12 (7): e0180088. Agrawal, S.M. <i>et al.</i> (2007) Impact of hepatitis B virus basic core promoter mutations on T cell response to an immunodominant HBx-derived epitope. Hepatology. 45 (5): 1199-209. Wooldridge, L. <i>et al.</i> (2006) Anti-coreceptor antibodies profoundly affect staining with peptide-MHC class I and class II tetramers. Eur J Immunol. 36 (7): 1847-55. Wildum, S. <i>et al.</i> (2018) Learned immunodeficiency virus type 1-infected T cells to superinfection. JVirol. 80 (16): 8047-59. Kirchhof, J. <i>et al.</i> (2018) Learned immunosuppressive placebo responses in renal transplant patients. Proc Natl Acad Sci U S A. 115 (16): 4223-7. 					

	12. Kelleher, M. <i>et al.</i> (2011) Comparative Kinetics of Immune R Cellular Sub-Sets Detected in Colorectal Cancer Patients Vaccin (TroVax) Administered Alongside Two Different Chemotherapy R <u>Therapy. 02 (01): 54-64.</u>	nated with MVA-5T4		
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 a frost-free freezers is not recommended. This product is photose protected from light.	, ,		
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1267AMO 10041			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Amethyst Orange (MCA928AMO)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	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 'M408892:221014'

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