Datasheet: MCA1267SBUV445T BATCH NUMBER 100007365

Description:	MOUSE ANTI HUMAN CD4:StarBright UltraViolet 445
Specificity:	CD4
Format:	StarBright UltraViolet 445
Product Type:	Monoclonal Antibody
Clone:	RPA-T4
Isotype:	lgG1
Quantity:	25 TESTS/0.125ml

Product Details

Applications	This product has been derived from testing w communications from information. For gener rad-antibodies.com/pro	indicated for further				
	Elever Or term start		No	Not Determined	Suggested Dilution	
	Flow Cytometry Where this product ha	s not been teste	d for i	ise in a particular teo	Neat	
	•	s use in such pro mmended that t	ocedur he use	es. Suggested work r titrates the product	ing dilutions are given as	
Target Species	Human					
Product Form	Purified IgG conjugated to StarBright UltraViolet 445 - liquid					
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)		
	StarBright UltraViolet 445	347		440	-	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide (1% Bovine Serum Alb 0.1% Pluronic F68 0.1% PEG 3350					

	0.05% Tween 20				
Immunogen	Human PHA blasts				
External Database Links	UniProt: P01730 Related reagents 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 (<u>Piatier-Tonneau <i>et al</i>, 1997</u>). The use of <u>Mouse anti Human</u> <u>CD4:Low Endotoxin (MCA1267EL)</u> is recommended for functional assays.				
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.				
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. <u>J Immunol. 167 (8): 4593-9</u>. Wright, G.J. <i>et al.</i> (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. <u>Immunology. 102 (2): 173-9</u>. Pentón-Rol, G. <i>et al.</i> (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. <u>Int Immunopharmacol. 11 (1): 29-38</u>. 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. <u>PLoS Pathog. 9 (4): e1003310</u>. Bughani, U. <i>et al.</i> (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. <u>PLoS One. 12 (7): e0180088</u>. 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. <u>Hepatology. 45 (5): 1199-209</u>. Wooldridge, L. <i>et al.</i> (2006) Anti-coreceptor antibodies profoundly affect staining with peptide-MHC class I and class II tetramers. <u>Eur J Immunol. 36 (7): 1847-55</u>. 				

Regulatory	For research purposes only
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1267SBUV445T 20471
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Guarantee	12 months from date of despatch
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
	 10. Wildum, S. <i>et al.</i> (2006) Contribution of Vpu, Env, and Nef to CD4 down-modulation and resistance of human immunodeficiency virus type 1-infected T cells to superinfection. J Virol. 80 (16): 8047-59. 11. 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 Responses and Changes in Cellular Sub-Sets Detected in Colorectal Cancer Patients Vaccinated with MVA-5T4 (TroVax) Administered Alongside Two Different Chemotherapy Regimens J Cancer Therapy. 02 (01): 54-64.

Related Products

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	ad.com	Email: antibody_sales_uk@bio-ra	id.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 'M415447:221223'

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