Datasheet: MCA1267SBUV445 BATCH NUMBER 100006450

Description:	MOUSE ANTI HUMAN CD4:StarBright UltraViolet 445				
Specificity:	CD4				
Format:	StarBright UltraViolet 445				
Product Type:	Monoclonal Antibody				
Clone:	RPA-T4				
lsotype:	lgG1				
Quantity:	100 TESTS/0.5ml				

Product Details

Applications	This product has been reported to work in the following applications. This information 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> .					
			lo	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat	
	Where this product has	s not been teste	d for ı	use in a particular teo	chnique this does not	
	necessarily exclude its a guide only. It is recor system using appropria	nmended that th	ne use	er titrates the product	ng dilutions are given as for use in their own	
Target Species	Human					
Product Form	Purified IgG conjugated	d to StarBright L	JltraV	olet 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	0.09% Sodium Azide (NaN ₃)					
Stabilisers	1% Bovine Serum Albumin					
	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 (Piatier-Tonneau <i>et al</i> , 1997). The use of <u>Mouse anti Human</u> <u>CD4:Low Endotoxin (MCA1267EL)</u> is recommended for functional assays.			
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.			
References	 Zarkesh-Esfahani, H. <i>et al.</i> (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 167 (8): 4593-9. Voehringer, D. <i>et al.</i> (2002) Lack of proliferative capacity of human effector and memory T cells expressing killer cell lectinlike receptor G1 (KLRG1). <u>Blood. 100 (10): 3698-702.</u> 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. 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. 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. 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. 			
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.			
Guarantee	12 months from date of despatch			

Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1267SBUV445 20471
Regulatory	For research purposes only
Related Produc	ots
Recommended Us	eful 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-r	ad.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 'M395180:220321'

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