Datasheet: MCA1267SBUV400T BATCH NUMBER 100007364

Description:	MOUSE ANTI HUMAN CD4:StarBright UltraViolet 400			
Specificity:	CD4			
Format:	StarBright UltraViolet 400			
Product Type:	Monoclonal Antibody			
Clone:	RPA-T4			
lsotype:	lgG1			
Quantity:	25 TESTS/0.125ml			

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> .						
			lo	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat		
	Where this product has necessarily exclude its a guide only. It is recor system using appropria	use in such pro mmended that th	ocedur ne use	es. Suggested worki r titrates the product	ng dilutions are given as		
Target Species	Human						
Product Form	Purified IgG conjugate	d to StarBright l	JltraVi	olet 400 - liquid			
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)			
	StarBright UltraViolet 400	347		394			
Preparation	Purified IgG prepared supernatant	by affinity chrom	natogra	aphy on Protein G fro	om tissue culture		
Buffer Solution	Phosphate buffered sa	lline					
Preservative Stabilisers	0.09% Sodium Azide (1% Bovine Serum Albu 0.1% Pluronic F68 0.1% PEG 3350	0)					

	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 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. J Immunol. 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.
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

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