Datasheet: MCA1267SBUV665T BATCH NUMBER 100007380

Description:	MOUSE ANTI HUMAN CD4:StarBright UltraViolet 665
Specificity:	CD4
Format:	StarBright UltraViolet 665
Product Type:	Monoclonal Antibody
Clone:	RPA-T4
Isotype:	lgG1
Quantity:	25 TESTS/0.125ml

Product Details

Applications	This product has been derived from testing wi communications from t information. For genera rad-antibodies.com/pro	ithin our laborat the originators. al protocol reco	ories, Please	peer-reviewed publicate refer to references in	ations or personal ndicated for further
			No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this product has	s not been teste	ed for u	use in a particular tecl	nique this does not
	necessarily exclude its a guide only. It is recor system using appropria	nmended that t	he use	er titrates the product	ng dilutions are given as for use in their own
Target Species	Human				
Product Form	Purified IgG conjugate	d to StarBright	UltraV	iolet 665 - liquid	
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)	
	StarBright UltraViolet 665	340		684	
Preparation	Purified IgG prepared I supernatant	by affinity chron	natogr	aphy on Protein G fro	m tissue culture
Buffer Solution	Phosphate buffered sa	lline			
Preservative	0.09% Sodium Azide (NaN ₃)			
Stabilisers	1% Bovine Serum Albu	umin			
	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 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

Health Ai Informati	nd Safety on			heet documentation #20 htibodies.com/SDS/MCA	
Regulato	ry	For resea	rch purpose	s only	
Relate	d Product	6			
	d Product nended Use	-	ents		
Recomn		ful Reag	ents		

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