

Datasheet: MCA2691SBR775

Description:	RAT ANTI MOUSE CD4:StarBright Red 775
Specificity:	CD4
Other names:	L3T4 ANTIGEN, LY-4
Format:	StarBright Red 775
Product Type:	Monoclonal Antibody
Clone:	RM4-5
lsotype:	lgG2a
Quantity:	100 TESTS/0.5ml

Product Details

Applications	This product has been derived from testing wi communications from t information. For genera rad-antibodies.com/pro	ithin our labora the originators al protocol rec	atories, . Please	peer-reviewed publica refer to references in	tions or personal dicated for further
		Yes	No	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 p mmended that	rocedur the use	es. Suggested workin r titrates the product f	g dilutions are given as
Target Species	Mouse				
Product Form	Purified IgG conjugate	d to StarBright	t Red 7	75 - liquid	
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)		
	StarBright Red 775	653		778	
Preparation	Purified IgG prepared l supernatant	by affinity chrc	omatogr	aphy on Protein G fror	n 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				

Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our <u>FAQ</u> page.
Immunogen	BALB/c mouse thymocytes
External Database Links	UniProt: <u>P06332</u> <u>Related reagents</u> Entrez Gene: <u>12504</u> Cd4 <u>Related reagents</u>
Specificity	Rat anti Mouse CD4 antibody, clone RM4-5 detects mouse CD4, a 55 kDa protein also known as Ly-4 and L3T4. CD4 is a single chain transmembraneous glycoprotein which belongs to the immunoglobulin superfamily, and is primarily expressed on peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4 ⁺ CD25 ⁺), which play a key role in the maintenance of self tolerance.
	Rat anti Mouse CD4 antibody, clone RM4-5 can be used for <i>in vitro</i> blocking of ligand binding, as well as <i>in vitro</i> CD4+ T cell depletions.
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	 von Kutzleben, S. <i>et al.</i> (2017) Depletion of CD52-positive cells inhibits the development of central nervous system autoimmune disease, but deletes an immune- tolerance promoting CD8 T-cell population. Implications for secondary autoimmunity of alemtuzumab in multiple sclerosis. <u>Immunology. 150 (4): 444-55.</u> Zamudio, F. <i>et al.</i> (2020) TDP-43 mediated blood-brain barrier permeability and leukocyte infiltration promote neurodegeneration in a low-grade systemic inflammation mouse model. <u>J Neuroinflammation. 17 (1): 283.</u> Aloui, A. <i>et al.</i> (2023) AFM(1) Exposure in Male Balb/c Mice and Intervention Strategies Against Its Immuno-physiological toxicity using Clay Mineral and Lactic Acid Bacteria Alone or in Combination. <u>Immunopharmacol Immunotoxicol. : 1-32.</u> Camponeschi, C. <i>et al.</i> (2021) S100B Protein as a Therapeutic Target in Multiple Sclerosis: The S100B Inhibitor Arundic Acid Protects from Chronic Experimental Autoimmune Encephalomyelitis. <u>Int J Mol Sci. 22 (24): 13558.</u>
Further Reading	1. Fehérvari, Z. & Sakaguchi, S. (2004) CD4+ Tregs and immune control. <u>J Clin Invest.</u> <u>114 (9): 1209-17.</u>
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 A Informati	nd Safety on		-	heet documentation #20 htibodies.com/SDS/MC/	
Regulato	ry	For resea	rch purpose	s only	
Relate	d Product	6			
	d Product nended Use		ents		
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