

Datasheet: MCA2691SBR670

BATCH NUMBER 64589177

Description:	RAT ANTI MOUSE CD4:StarBright Red 670		
Specificity:	CD4		
Other names:	L3T4 ANTIGEN, LY-4		
Format:	StarBright Red 670		
Product Type:	Monoclonal Antibody		
Clone:	RM4-5		
Isotype:	IgG2a		
Quantity:	100 TESTS/0.5ml		

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse				
Product Form	Purified IgG conjugat	Purified IgG conjugated to StarBright Red 670 - liquid			
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	StarBright Red 670	653	666		
eparation	Purified IgG prepared by affinity chromatography on Protein C supernatant				
er Solution	Phosphate buffered s	saline			
ervative	0.09% Sodium Azide	(NaN ₃)			
bilisers	1% Bovine Serum All	bumin			
	0.1% Pluronic F68				
	0.1% PEG 3350				

Immunogen	BALB/c mouse thymocytes				
External Database Links	UniProt: P06332 Related reagents Entrez Gene: 12504 Cd4 Related reagents				
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	1. 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. Immunology. 150 (4): 444-55. 2. 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. J Neuroinflammation. 17 (1): 283. 3. 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. Immunopharmacol Immunotoxicol.: 1-32. 4. 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. Int J Mol Sci. 22 (24): 13558.				
Further Reading	1. Fehérvari, Z. & Sakaguchi, S. (2004) CD4+ Tregs and immune control. <u>J Clin Invest.</u> 114 (9): 1209-17.				
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 Material Safety Datasheet documentation #20471 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA2691SBR670

20471

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M426602:240209'

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