

# Datasheet: MCA2691SBY720

Description:	RAT ANTI MOUSE CD4:StarBright Yellow 720
Specificity:	CD4
Other names:	L3T4 ANTIGEN, LY-4
Format:	StarBright Yellow 720
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		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	mmended that	t the us	er titrates the product f	ng dilutions are given as for use in their own		
Target Species	Mouse						
Product Form	Purified IgG conjugated to StarBright Yellow 720 - liquid						
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)			
	StarBright Yellow 720	549		719			
Preparation	Purified IgG prepared I supernatant	by affinity chro	omatogi	raphy on Protein G fro	m tissue culture		
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )						
Stabilisers	1% Bovine Serum Albumin						
	0.1% Pluronic F68						
	0.1% PEG 3350						
	0.05% Tween 20						

External Database Links       UniProt: E06332       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 Ly4 and L314. CD4 is a single chain transmembraneous glycoprotein which belongs to the immunoglobulin superfamily, and is primatily 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.         Flow Cytometry       Use 5µl of the suggested working dilution to label 10 <sup>6</sup> 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 infittration promote neurodegeneration in a low-grade systemic inflammation mouse model. J Neuroinflammation. 11 (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 Lectic Acid Bacteria Alone or in Combination. Immunopharmacol Immunotoxici. 1: 1-32.         Further Reading       1. Fehérvari, Z. & Sakaguchi, S. (2004) CD4+ Tregs and immune control. J Clin Invest. 114 (6): 1209-17.         Storage       Store at +4*C. D0 NOT FREEZE: This product should be sto	Immunogen	BALB/c mouse thymocytes
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	-	https://www.bio-rad-antibodies.com/SDS/MCA2691SBY720

## 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		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.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 'M418440:230420'

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