

Datasheet: MCA2691SBV790

BATCH NUMBER 100005602

Description:	RAT ANTI MOUSE CD4:StarBright Violet 790
Specificity:	CD4
Other names:	L3T4 ANTIGEN, LY-4
Format:	StarBright Violet 790
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 conjugate	Purified IgG conjugated to StarBright Violet 790 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	StarBright Violet 790	401	782		
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G		
uffer Solution	Phosphate buffered s	aline			
eservative	0.09% Sodium Azide	(NaN ₃)			
tabilisers	1% Bovine Serum Alb	oumin			
	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 5ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.					
References	 Fehérvari, Z. & Sakaguchi, S. (2004) CD4+ Tregs and immune control. <u>J Clin Invest.</u> 114 (9): 1209-17. 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.</u> 150 (4): 444-55. 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.</u> 17 (1): 283. 					
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 Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2691SBV790 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
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M387264:210621'

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