

Datasheet: MCA2462SBV570 BATCH NUMBER 100008288

Description:	RAT ANTI MOUSE CD80:StarBright Violet 570
Specificity:	CD80
Other names:	B7-1
Format:	StarBright Violet 570
Product Type:	Monoclonal Antibody
Product Type: Clone:	RM80
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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		
	necessarily exclude its	s use in such proce mmended that the	for use in a particular tech edures. Suggested workin user titrates the product f ve controls.	ng dilutions are given as		
Target Species	Mouse					
Product Form	Purified IgG conjugate	d to StarBright Vio	let 570 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (n	m) Emission Max (nm)			
	StarBright Violet 570	404	571			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% Sodium Azide (NaN ₃)				
Stabilisers	1% Bovine Serum Alb	•				
	0.1% Pluronic F68					
	0.1% PEG 3350					

	0.05% Tween 20
Immunogen	BCL1 cells expressing CD80.
External Database Links	UniProt: <u>Q00609</u> <u>Related reagents</u> Entrez Gene: <u>12519</u> Cd80 <u>Related reagents</u>
Synonyms	B7
Fusion Partners	Spleen cells from immunized SD rats were fused with cells of the P3U1 myeloma cell line.
Specificity	Rat anti Mouse CD80 antibody, clone RM80 recognizes mouse CD80 (B7-1), a ~60 kDa cell surface glycoprotein which is a member of the CD28/B7 family. In mice, CD80 is expressed on monocytes, peritoneal macrophages and dendritic cells, and expression may be significantly increased upon B lymphocytes by LPS and by IL-4. CD80 has been identified as a ligand for CD28 and cytotoxic T-lymphocyte antigen-4 (CTLA-4), two structurally similar molecules expressed on T cells. CD28 and CTLA4 are two receptors that have essential but opposing functions in T-cell stimulation. The Interaction of CD80 with CD28 stimulates and sustains T cell responses, whereas the interaction of CD80 with CTLA4 is reported to inhibit T-cell responses.
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	 Nakajima, A. <i>et al.</i> (1997) Requirement of CD28-CD86 co-stimulation in the interaction between antigen-primed T helper type 2 and B cells. Int Immunol. 9 (5): 637-44. Nozawa, K. <i>et al.</i> (2001) Preferential blockade of CD8(+) T cell responses by administration of anti-CD137 ligand monoclonal antibody results in differential effect on development of murine acute and chronic graft-versus-host diseases. J Immunol. 167 (9): <u>4981-6</u>. Jin LP <i>et al.</i> (2004) Adoptive transfer of paternal antigen-hyporesponsive T cells induces maternal tolerance to the allogeneic fetus in abortion-prone matings. J Immunol. <u>173 (6): 3612-9</u>. Inada, T. <i>et al.</i> (2009) Vaccines using dendritic cells, differentiated with propofol, enhance antitumor immunity in mice. Immunopharmacol Immunotoxicol. 31 (1): 150-7. Bedoret, D. <i>et al.</i> (2009) Lung interstitial macrophages alter dendritic cell functions to prevent airway allergy in mice. J Clin Invest. <u>119 (12): 3723-38</u>. Deng, J. <i>et al.</i> (2010) Dendritic cells loaded with ultrasound-ablated tumour induce in vivo specific antitumour immune responses. <u>Ultrasound Med Biol.</u> <u>36 (3): 441-8</u>. Legutko, A. <i>et al.</i> (2011) Sirtuin 1 Promotes Th2 Responses and Airway Allergy by Repressing Peroxisome Proliferator-Activated Receptor-{gamma} Activity in Dendritic Cells. J Immunol. 187: 4517-29. He, Y.T. <i>et al.</i> (2016) <i>In vitro</i> generation of cytotoxic T lymphocyte response using

	 dendritic cell immunotherapy in osteosarcoma. <u>Oncol Lett. 12 (2): 1101-6.</u> 9. Kim, I. <i>et al.</i> (2016) Immunological characterization of de novo and recall alloantibody suppression by CTLA4Ig in a mouse model of allosensitization. <u>Transpl Immunol. 38:</u> <u>84-92.</u> 10. Curina, G. <i>et al.</i> (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated <i>Brucella melitensis.</i> REV1 vaccine produced in bioreactor. <u>Vet Immunol Immunopathol. 198: 44-53.</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. counterparts	S. and foreign		
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2462SBV570 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
	Email: antibody_sales_us@bio-r	ad.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 'M426141:231121'

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