

Datasheet: MCA2462SBV610

Description:	RAT ANTI MOUSE CD80:StarBright Violet 610			
Specificity:	CD80			
Other names:	B7-1			
Format:	StarBright Violet 610			
Product Type:	Monoclonal Antibody			
Clone:	RM80			
lsotype:	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 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 conjugated to StarBright Violet 610 - liquid				
Max Ex/Em	Fluorophore StarBright Violet 610	Excitation Max 403	k (nm)	Emission Max (nm) 607	
Preparation	Purified IgG prepared b supernatant	by affinity chro	matogra	aphy on Protein G froi	m tissue culture
Buffer Solution	Phosphate buffered sal	line			
Preservative	0.09% Sodium Azide (NaN ₃)				
Stabilisers	1% Bovine Serum Albumin				
	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
RRID	AB_2943396
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.
	suggest a 5 minutes centinugation at 0,000g phor 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. <u>Int Immunol. 9 (5): 637-44.</u> 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. <u>J Immunol. 167 (9): 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. <u>J Immunol.</u> <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. <u>Immunopharmacol Immunotoxicol. 31 (1): 150-7.</u> Bedoret, D. <i>et al.</i> (2009) Lung interstitial macrophages alter dendritic cell functions to prevent airway allergy in mice. <u>J Clin Invest. 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. 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. <u>J Immunol. 187: 4517-29.</u> 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> 84-92. 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.S counterparts	S. and foreign	
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2462SBV610 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-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 'M421994:230822'

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