Datasheet: MCA2462GA BATCH NUMBER 160957

Description:	RAT ANTI MOUSE CD80		
Specificity:	CD80		
Other names:	B7-1		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	RM80		
Isotype:	lgG2a		
Quantity: 0.1 mg			

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>.

	rad-antibodics.com/proto	0013.			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/10 - 1/50
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting			•	
	Where this product has r	not been f	tested for	use in a particular tech	nnique 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 - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant			m tissue culture	
Buffer Solution	Phosphate buffered salin	e			
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)			

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
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_905983
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 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
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. 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>

	 7. 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> 8. 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</u> <u>Immunol Immunopathol. 198: 44-53.</u> 			
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in			
	frost-free freezers is not recommended.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2462GA 10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69)	<u>FITC</u>			
Goat Anti Rat IgG (STAR73)	RPE			
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>				
Rabbit Anti Rat IgG (STAR21)	HRP			
Rabbit Anti Rat IgG (STAR16)	DyLight®800			
Goat Anti Rat IgG (STAR131)	Alk. Phos., Biotin			
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>			
Goat Anti Rat IgG (STAR72)	HRP			
Recommended Negative Controls				

RAT IgG2a NEGATIVE CONTROL (MCA1212)

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 'M383830:210513'

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