

Datasheet: MCA2462F BATCH NUMBER 152776

Description:	RAT ANTI MOUSE CD80:FITC		
Specificity:	CD80		
Other names:	B7-1		
Format:	FITC		
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 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.

arget Species	Mouse		
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	niocyanate Isomer ′
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	FITC	490	525
uffer Solution	supernatant Phosphate buffered sa	aline	
eservative abilisers	0.09% Sodium Azide 1% Bovine Serum	. 0,	
	1% bovine Serum	Albumin	

Concentrations

Immunogen	BCL1 cells expressing CD80.				
External Database Links	UniProt: Q00609 Related reagents Entrez Gene: 12519 Cd80 Related reagents				
Synonyms	B7				
RRID	AB_905982				
Fusion Partners	Spleen cells from immunised 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 1x10 ⁶ cells in 100ul.				
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).				
References	 Nuriya, S. <i>et al.</i> (1996) The differential role of CD86 and CD80 co-stimulatory molecules in the induction and the effector phases of contact hypersensitivity. 				

prevent airway allergy in mice. <u>J Clin Invest. 119 (12): 3723-38.</u>

5. Bedoret, D. et al. (2009) Lung interstitial macrophages alter dendritic cell functions to

<u>4981-6.</u>

6. Legutko, A. *et al.* (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.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation

before use.

Guarantee 12 months from date of despatch

Health And Safety
Information Material Safety Datasheet documentation #10041 available at:
https://www.bio-rad-antibodies.com/SDS/MCA2462F

10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:FITC (MCA1212F)

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America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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Email: antibody_sales_uk@bio-rad.com

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366969:200529'

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