

# Datasheet: MCA2463F BATCH NUMBER 158542

Description:	RAT ANTI MOUSE CD86:FITC	
Specificity:	CD86	
Other names:	B7-2	
Format:	FITC	
Product Type:	Monoclonal Antibody	
Clone:	PO3	
Isotype:	lgG2b	
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse		
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	hiocyanate Isomer 1
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	FITC	490	525
Buffer Solution	Supernatant  Phosphate buffered sa	aline	
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum	Albumin	

Concentrations	
Immunogen	Mouse B-cell line, BCL1.
External Database Links	UniProt: P42082 Related reagents
	Entrez Gene:  12524 Cd86 Related reagents
RRID	AB_808461
Fusion Partners	Spleen cells from immunized Sprague Dawley rats were fused with cells of the P3U′ myeloma cell line.
Specificity	Rat anti mouse CD86 antibody, clone PO3 recognizes mouse CD86 (B7-2), a ~80 cell surface glycoprotein, a member of the CD28/B7 family. In mouse CD86 is expressed bland managettes and dandritic cells, and at law levels are

Rat anti mouse CD86 antibody, clone PO3 recognizes mouse CD86 (B7-2), a ~80 kDa cell surface glycoprotein, a member of the CD28/B7 family. In mouse CD86 is expressed at high levels on peripheral blood monocytes and dendritic cells, and at low levels on resting B and T-lymphocytes. Expression of CD86, on these cell populations, can be increased upon activation. CD86 has been identified, along with CD80 (B7-1), as a ligand for CD28 and cytotoxic T-lymphocyte antigen-4 (CTLA4). CD28 and CTLA4 are two receptors that have opposing functions in T-cell stimulation. Interaction of CD86 with CD28 promotes a number of T-cell activities, whereas the binding of CD86 to CTLA4 inhibits T-cell responses.

Rat anti mouse CD86 antibody, clone PO3 has been reported to block some co-stimulatory functions of CD86 (Nakajima et al. 1997).

#### Flow Cytometry

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

#### References

- 1. Nakajima, A. *et al.* (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>
- 2. Nozawa, K. *et al.* (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>
- 3. Jin, L.P. *et al.* (2004) Adoptive transfer of paternal antigen-hyporesponsive T cells induces maternal tolerance to the allogeneic fetus in abortion-prone matings. <u>J Immunol.</u> 173 (6): 3612-9.
- 4. Bedoret, D. *et al.* (2009) Lung interstitial macrophages alter dendritic cell functions to prevent airway allergy in mice. <u>J Clin Invest. 119 (12): 3723-38.</u>
- 5. 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.
- 6. Lei, Y. *et al.* (2021) miR-129-5p Ameliorates Ischemic Brain Injury by Binding to SIAH1 and Activating the mTOR Signaling Pathway. <u>J Mol Neurosci. 71 (9): 1761-71.</u>
- 7. Li, T. et al. (2019) NLRP3 inflammasome-activating arginine-based liposomes promote

antigen presentations in dendritic cells. Int J Nanomedicine. 14: 3503-16.

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 frost-free freezers is not recommended. This product is photose protected from light.	, ,			
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2463F">https://www.bio-rad-antibodies.com/SDS/MCA2463F</a> 10041				
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 America

Worldwide

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

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Fax: +1 919 878 3751

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 'M385790:210513'

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