

Datasheet: MCA2874F BATCH NUMBER 153120

Description:	MOUSE ANTI RAT CD86:FITC
Specificity:	CD86
Other names:	B7-2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	24F
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been reported to work in the following applications. This information 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 N	o Not	Determined	Suggested Dilution		
	Flow Cytometry	-			Neat - 1/10		
	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 giver 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	Rat						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm) Emiss	ion Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						
Approx. Protein	IgG concentration 0.1r	ng/ml					

Concentrations Immunogen HTLV-1 transformed Lewis-S1 cells. RRID AB_1720003 **Fusion Partners** Spleen cells from immunised Balb/c mice were fused with cells of the P3U1 mouse myeloma cell line. Specificity Mouse anti Rat CD86 antibody, clone 24F recognizes rat CD86, otherwise known as B7-2, a type I transmembrane protein and member of the Ig superfamily, which acts as a ligand for both CD28 and CD152 (CTLA-4), and is primarily expressed on antigen presenting cells (APCs) including dendritic cells, and also on germinal centre B cells and macrophages. Like CD80, CD86 is an accessory molecule which functions in the CD28-CD80/CD86 co-stimulatory pathway, vital for T cell activation, crosstalk between T and B cells, and Th₂-mediated Ig production. Mouse anti Rat CD86 antibody, clone 24F has been shown to block the co-stimulatory activity of rat CD86 (Maeda et al. 1997). Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul. References 1. Maeda, K. et al. (1997) Characterization of rat CD80 and CD86 by molecular cloning and mAb. Int Immunol. 9 (7): 993-1000. 2. Damoiseaux, J.G. et al. (1998) Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. J Leukoc Biol. 64 (6): 803-9. 3. Hanabuchi, S. et al. (2000) Development of human T-cell leukemia virus type 1-transformed tumors in rats following suppression of T-cell immunity by CD80 and CD86 blockade. J Virol. 74: 428-35. 4. Kano, M. et al. (1998) A crucial role of host CD80 and CD86 in rat cardiac xenograft rejection in mice. Transplantation. 65: 837-43. 5. Tamatani, T. et al. (2000) AILIM/ICOS: a novel lymphocyte adhesion molecule. Int Immunol. 12: 51-5. 6. Dilek, N. et al. (2012) Control of transplant tolerance and intragraft regulatory T cell localization by myeloid-derived suppressor cells and CCL5. J Immunol. 188: 4209-16. 7. Ghiringhelli, F. et al. (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. <u>J Exp Med.</u> 202: 919-29. 8. Sacedón, R. et al. (1999) Glucocorticoid-mediated regulation of thymic dendritic cell function. Int Immunol. 11: 1217-24. 9. Kawai, T. et al. (2000) T(h)1 transmigration anergy: a new concept of endothelial cell-T cell regulatory interaction. Int Immunol. 12: 937-48. 10. Macphee, I.A. et al. (2002) The Th2-response in mercuric chloride-induced autoimmunity requires continuing costimulation via CD28. Clin Exp Immunol. 129: 405-10. 11. MacPhee, I.A. et al. (2006) Blockade of OX40-ligand after initial triggering of the T

	helper 2 response inhibits mercuric chloride-induced autoimmu	unity. <u>Immunology. 117:</u>
	 402-8. 12. Yrlid, U. <i>et al.</i> (2006) A distinct subset of intestinal dendrities to oral TLR7/8 stimulation. <u>Eur J Immunol. 36: 2639-48.</u> 13. Matsumoto, S. <i>et al.</i> (2015) CD200+ and CD200- macroph ischemic lesions of rat brain: the two populations cannot be clasmacrophages. <u>J Neuroimmunol. 282: 7-20.</u> 14. Patil, P.S. <i>et al.</i> (2016) Fluorinated methacrylamide chitosa collagen synthesis in wound healing through increased oxyger <u>36: 164-74.</u> 15. Hellenbrand, D.J. <i>et al.</i> (2019) Sustained interleukin-10 del and improves motor function after spinal cord injury. <u>J Neuroim</u> 	ages accumulated in assified as either M1 or M2 in hydrogels enhance in availability. <u>Acta Biomater.</u> livery reduces inflammation
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 photos protected from light. Avoid repeated freezing and thawing as the antibody. Should this product contain a precipitate we recomme before use.	nis may denature the
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/MCA2874F 10041	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

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-ra	d.com	Email: antibody_sales_uk@bio-rac	d.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 'M367525:200529'

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