

Datasheet: MCA2874PE BATCH NUMBER 151250

Description:	MOUSE ANTI RAT CD86:RPE
Specificity:	CD86
Other names:	B7-2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	24F
lsotype:	lgG1
Quantity:	100 TESTS

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	Rat						
Product Form	Purified IgG conjugated	l to R. Phyc	oerythrin	(RPE) - lyophilized			
Reconstitution	Reconstitute with 1ml distilled water						
Max Ex/Em	Fluorophore	Excitation M	/lax (nm)	Emission Max (nm)			
	RPE 488nm laser	496	i	578			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered sal	ine					
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						

	5% Sucrose
Immunogen	HTLV-1 transformed Lewis-S1 cells.
RRID	AB_2075122
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 Th ₂ -mediated Ig production.
	Mouse anti Rat CD86 antibody, clone 24F has been shown to block the co-stimulatory activity of rat CD86 (<u>Maeda <i>et al.</i> 1997</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	 Maeda, K. <i>et al.</i> (1997) Characterization of rat CD80 and CD86 by molecular cloning and mAb. Int Immunol. 9 (7): 993-1000. Damoiseaux, J.G. <i>et al.</i> (1998) Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. J Leukoc Biol. 64 (6): 803-9. Hanabuchi, S. <i>et al.</i> (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. Kano, M. <i>et al.</i> (1998) A crucial role of host CD80 and CD86 in rat cardiac xenograft rejection in mice. Transplantation. 65: 837-43. Tamatani, T. <i>et al.</i> (2000) AlLIM/ICOS: a novel lymphocyte adhesion molecule. Int Immunol. 12: 51-5. Dilek, N. <i>et al.</i> (2012) Control of transplant tolerance and intragraft regulatory T cell localization by myeloid-derived suppressor cells and CCL5. J Immunol. 188: 4209-16. Ghiringhelli, F. <i>et al.</i> (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. J Exp Med. 202: 919-29. Sacedón, R. <i>et al.</i> (1999) Glucocorticoid-mediated regulation of thymic dendritic cell function. Int Immunol. 11: 1217-24. Kawai, T. <i>et al.</i> (2000) T(h)1 transmigration anergy: a new concept of endothelial cell-T cell regulatory interaction. Int Immunol. 12: 937-48. Macphee, I.A. <i>et al.</i> (2002) The Th2-response in mercuric chloride-induced autoimmunity requires continuing costimulation via CD28. Clin Exp Immunol. 129: 405-10. MacPhee, I.A. <i>et al.</i> (2006) Blockade of OX40-ligand after initial triggering of the T

	helper 2 response inhibits mercuric chloride-induced autoimmunity. <u>Immunology. 117:</u> 402-8.			
	12. Yrlid, U. <i>et al.</i> (2006) A distinct subset of intestinal dendritic cells responds selectively			
	to oral TLR7/8 stimulation. <u>Eur J Immunol. 36: 2639-48.</u> 13. Matsumoto, S. <i>et al.</i> (2015) CD200+ and CD200- macrophages accumulated in			
	ischemic lesions of rat brain: the two populations cannot be classified as either M1 or M2			
	macrophages. <u>J Neuroimmunol. 282: 7-20.</u>			
	14. Patil, P.S. <i>et al.</i> (2016) Fluorinated methacrylamide chitosan hydrogels enhance			
	collagen synthesis in wound healing through increased oxygen availability. <u>Acta Biomater.</u> <u>36: 164-74.</u>			
	15. Hellenbrand, D.J. <i>et al.</i> (2019) Sustained interleukin-10 delivery reduces inflammation			
	and improves motor function after spinal cord injury. J Neuroinflammation. 16 (1): 93.			
	16. Zhou, X. et al. (2022) Dusp6 deficiency attenuates neutrophil-mediated cardiac			
	damage in the acute inflammatory phase of myocardial infarction. <u>Nat Commun. 13 (1):</u> <u>6672.</u>			
Storage	Prior to reconstitution store at +4°C.			
	After reconstitution store at +4°C.			
	DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.			
Guarantee	12 months from date of despatch			
Health And Safety	Material Safety Datasheet documentation #20487 available at:			
Information	https://www.bio-rad-antibodies.com/SDS/MCA2874PE 20487			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA1209PE)

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	o-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 'M375536:210104'

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