

Datasheet: MCA2874A488T

Description:	MOUSE ANTI RAT CD86:Alexa Fluor® 488
Specificity:	CD86
Other names:	B7-2
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	24F
Isotype:	IgG1
Quantity:	25 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	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 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 conjugate	ed to Alexa Fluor 488	- liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	Alexa Fluor®488	495	519
Preparation Buffer Solution	Purified IgG prepared supernatant Phosphate buffered sa	. , .	raphy on Protein G
Preservative Stabilisers	0.09% Sodium Azide (1% Bovine Serum Alb		
Approx. Protein Concentrations	IgG concentration 0.08	5mg/ml	

Immunogen	HTLV-1 transformed Lewis-S1 cells.					
RRID	AB_1719943					
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 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 ${\rm Th}_2$ -mediated Ig production.					
	Mouse anti Rat CD86 antibody, clone 24F has been shown to block the co-stimulatory activity of rat CD86 (Maeda <i>et al.</i> 1997).					
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.					
References	1. Damoiseaux, J.G. <i>et al.</i> (1998) Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. <u>J Leukoc Biol. 64 (6):</u> 803-9.					
	2. Kano, M. <i>et al.</i> (1998) A crucial role of host CD80 and CD86 in rat cardiac xenograft rejection in mice. <u>Transplantation</u> . 65: 837-43.					
	3. Sacedón, R. <i>et al.</i> (1999) Glucocorticoid-mediated regulation of thymic dendritic cell					
	function. Int Immunol. 11: 1217-24.					
	4. 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. <u>J Virol. 74: 428-35.</u>					
	5. Tamatani, T. et al. (2000) AILIM/ICOS: a novel lymphocyte adhesion molecule. Int					
	<u>Immunol. 12: 51-5.</u>					

- 6. 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.
- 7. 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.
- 8. 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.
- 9. MacPhee, I.A. et al. (2006) Blockade of OX40-ligand after initial triggering of the T helper 2 response inhibits mercuric chloride-induced autoimmunity. Immunology. 117: 402-8.
- 10. Yrlid, U. et al. (2006) A distinct subset of intestinal dendritic cells responds selectively to oral TLR7/8 stimulation. Eur J Immunol. 36: 2639-48.
- 11. Dilek, N. et al. (2012) Control of transplant tolerance and intragraft regulatory T cell localization by myeloid-derived suppressor cells and CCL5. <u>J Immunol</u>. 188: 4209-16.

- 12. Matsumoto, S. *et al.* (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>
- 13. Patil, P.S. *et al.* (2016) Fluorinated methacrylamide chitosan hydrogels enhance collagen synthesis in wound healing through increased oxygen availability. <u>Acta Biomater.</u> 36: 164-74.
- 14. Hellenbrand, D.J. *et al.* (2019) Sustained interleukin-10 delivery reduces inflammation and improves motor function after spinal cord injury. <u>J Neuroinflammation</u>. 16 (1): 93.
- 15. 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> 6672.

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. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2874A488T 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

Email: antibody_sales_us@bio-rad.com

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 488 (MCA1209A488)

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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

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