

Datasheet: MCA2747A488

Description:	RAT ANTI MOUSE CD83:Alexa Fluor®488
Specificity:	CD83
Other names:	HB15
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	3D11
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

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	Mouse		
Product Form	Purified IgG conjugated to Alexa Fluor 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
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 Concentrations	IgG concentration 0.05mg/ml		
External Database	UniProt:		

Links

[O88324](#) [Related reagents](#)

Entrez Gene:

[12522](#) Cd83 [Related reagents](#)

Fusion Partners	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 mouse myeloma cell line.
Specificity	Rat anti Mouse CD83 antibody, clone 3D11 recognizes murine CD83, a 45 kDa type 1 glycoprotein belonging to the immunoglobulin superfamily. Originally described as a maturation marker for dendritic cells, CD83 plays a role in the regulation of antigen presentation, thymic T-cell maturation, B-cell function and peripheral T-cell activation. Activated dendritic cells and B-cells release a soluble form of CD83 that is reported to have an immunosuppressive effect, suggesting a therapeutic role for sCD83 in the regulation of immune disorders.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Fujimoto, Y. & Tedder, T.F. (2006) CD83: a regulatory molecule of the immune system with great potential for therapeutic application. J Med Dent Sci. 53 (2): 85-91. 2. He, Y.T. <i>et al.</i> (2016) <i>In vitro</i> generation of cytotoxic T lymphocyte response using dendritic cell immunotherapy in osteosarcoma. Oncol Lett. 12 (2): 1101-6. 3. El-Ashmawy, N.E. <i>et al.</i> (2015) <i>In vitro</i> and <i>in vivo</i> studies of the immunomodulatory effect of <i>Echinacea purpurea</i> on dendritic cells. Journal of Genetic Engineering and Biotechnology. 13 (2): 185-92.
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.
Shelf Life	18 months from the date of despatch.
Acknowledgements	The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays, and are covered by pending and issued patents.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1212A488\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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