

Datasheet: MCA2747A647

Description:	RAT ANTI MOUSE CD83:Alexa Fluor®647
Specificity:	CD83
Other names:	HB15
Format:	ALEXA FLUOR® 647
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® 647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
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Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
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External Database Links	<p>UniProt: O88324 Related reagents</p> <p>Entrez Gene: 12522 Cd83 Related reagents</p>
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RRID	AB_2074745
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Fusion Partners	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 mouse myeloma cell line.
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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.
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
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References	<ol style="list-style-type: none"> 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.
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Storage	<p>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.</p> <p>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.</p>
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Guarantee	12 months from date of despatch
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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:
<https://www.bio-rad-antibodies.com/SDS/MCA2747A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

Recommended Useful Reagents

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)

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