

Datasheet: MCA2747F

Description:	RAT ANTI MOUSE CD83:FITC
Specificity:	CD83
Other names:	HB15
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	3D11
Isotype:	IgG2a
Quantity:	0.1 mg

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission 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	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
External Database Links	<p>UniProt: O88324 Related reagents</p> <p>Entrez Gene: 12522 Cd83 Related reagents</p>
RRID	AB_2074744
Fusion Partners	Spleen cells from immunized 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	<ol style="list-style-type: none"> 1. 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. 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.
Further Reading	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.
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>
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/MCA2747F

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

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

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