

Datasheet: MCA2747

Description:	RAT ANTI MOUSE CD83
Specificity:	CD83
Other names:	HB15
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3D11
Isotype:	IgG2a
Quantity:	0.25 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	■			
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 - liquid
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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	UniProt:

[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	<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.
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. 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.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Rabbit Anti Rat IgG (STAR21...)	HRP

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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