Datasheet: MCA6064PE

Description:	RAT ANTI MOUSE CD83:RPE
Specificity:	CD83
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	Michel-19
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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	▪			1/5 - 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

Mouse

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

Purified IgG prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

Immunogen

Recombinant mouse CD83 protein

External Database Links

UniProt:

O88324 Related reagents

Entrez Gene:

12522 Cd83 Related reagents

Specificity	**Rat anti Mouse CD83, clone Michel-19** recognizes CD83 also known as HB15. CD83 is a 45 kDa type I transmembrane protein and member of the immunoglobulin superfamily. CD83 expression has been detected on dendritic cells (DCs) and activated lymphocytes. CD83 is a well-recognized marker for mature dendritic cells. It is expressed as a cell surface molecule on thymic, circulating, and monocyte derived DCs, as well as Langerhans cells in the skin, interdigitating reticulum cells in the T cell zones of lymphoid organs, and microglia. Low level expression has also been reported on activated T and B cells. In addition, CD83 can be expressed in a soluble form, and is able to down-regulate DC maturation and stimulation of T cells. When CD83 expression was disrupted in mice, CD4+ T cell generation was impaired.
Flow Cytometry	Use 10 µl of the suggested working dilution to label 1x10^6 cells in 100ul
References	1. Breloer, M. *et al.* (2007) CD83 is a regulator of murine B cell function *in vivo*. Eur J Immunol. 37 (3): 634-48. 2. Kretschmer, B. *et al.* (2009) Engagement of CD83 on B cells modulates B cell function *in vivo*. J Immunol. 182 (5): 2827-34.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6064PE 10040
Regulatory	For research purposes only

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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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