

Datasheet: MCA6064F

Description:	RAT ANTI MOUSE CD83:FITC
Specificity:	CD83
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	Michel-19
Isotype:	IgG1
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	▪			1/5 - 1/20

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						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)						
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml						
Immunogen	Recombinant mouse CD83 protein						
External Database Links	<p>UniProt:</p> <p>O88324 Related reagents</p> <p>Entrez Gene:</p>						

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 1x10⁶ 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 18 months from 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

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