

Datasheet: MCA5891F

Description:	RAT ANTI MOUSE CD283:FITC		
Specificity:	CD283		
Other names:	TLR3		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	11F8		
Isotype:	lgG2a		
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
Immunofluorescence				

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

rget Species	Mouse		
oduct Form	Purified IgG conjugat	ted to Fluorescein Isoth	niocyanate Isomer
x Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	FITC	490	525
paration	Purified IgG prepared	d by affinity chromatogi	raphy on Protein G
paration fer Solution	Purified IgG prepared supernatant Phosphate buffered s		raphy on Protein G

Concentrations

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Purified murine TLR3 extracellular domain protein.

External Database Links

UniProt:

Q99MB1 Related reagents

Entrez Gene:

142980 Tlr3 Related reagents

Specificity

Rat anti Mouse CD283 antibody, clone 11F8 recognizes mouse TLR3, otherwise known as CD283 or Toll-like receptor 3. CD283 is a 905 amino acid ~105 kDa single pass type 1 transmembrane glycoprotein associated with endosomal membranes and member of the Toll-like receptor (TLR) family. CD283 functions as a receptor for double-stranded RNA (UniProt: Q99MB1).

TLRs are expressed on the cell surface and the endocytic compartment and recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents. TLRs also initiate cell signaling to induce production of cytokines necessary for the innate immunity and subsequent adaptive immunity.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

- 1. McCartney, S. *et al.* (2009) Distinct and complementary functions of MDA5 and TLR3 in poly(I:C)-mediated activation of mouse NK cells. <u>J Exp Med. 206: 2967-76.</u>
- 2. Jelinek, I. *et al.* (2011) TLR3-specific double-stranded RNA oligonucleotide adjuvants induce dendritic cell cross-presentation, CTL responses, and antiviral protection. <u>J. Immunol.</u> 186: 2422-9.
- 3. McCartney, S.A. *et al.* (2011) RNA sensor–induced type I IFN prevents diabetes caused by a β cell–tropic virus in mice <u>J Clin Invest. 121: 1497-507.</u>
- 4. Azuma, M. *et al.* (2012) Cross-priming for antitumor CTL induced by soluble Ag + polyl:C depends on the TICAM-1 pathway in mouse CD11c(+)/CD8 α (+) dendritic cells. Oncoimmunology. 1: 581-592.
- 5. Zeng, R. *et al.* (2016) Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid. Mucosal Immunol. 9 (1): 183-93.
- 6. Njoroge, J.M. *et al.* (2018) A flow cytometric analysis of macrophage- nanoparticle interactions *in vitro*: induction of altered Toll-like receptor expression. <u>Int J Nanomedicine</u>. 13: 8365-78.

Storage

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.

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.

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/MCA5891F

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:FITC (MCA1212F)

Recommended Useful Reagents

LEUCOPERM (BUF09) 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 'M384681:210513'

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