

Datasheet: MCA5891F

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

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 0.1mg/ml						
Immunogen	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 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none">1. McCartney, S. <i>et al.</i> (2009) Distinct and complementary functions of MDA5 and TLR3 in poly(I:C)-mediated activation of mouse NK cells. J Exp Med. 206: 2967-76.2. Jelinek, I. <i>et al.</i> (2011) TLR3-specific double-stranded RNA oligonucleotide adjuvants induce dendritic cell cross-presentation, CTL responses, and antiviral protection. J Immunol. 186: 2422-9.3. Azuma, M. <i>et al.</i> (2012) Cross-priming for antitumor CTL induced by soluble Ag + polyI:C depends on the TICAM-1 pathway in mouse CD11c(+)/CD8α(+) dendritic cells. Oncoimmunology. 1: 581-592.4. McCartney, S.A. <i>et al.</i> (2011) RNA sensor-induced type I IFN prevents diabetes caused by a β cell-tropic virus in mice J Clin Invest. 121: 1497-507.5. Zeng, R. <i>et al.</i> (2016) Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid. Mucosal Immunol. 9 (1): 183-93.6. Njoroge, J.M. <i>et al.</i> (2018) A flow cytometric analysis of macrophage- nanoparticle interactions <i>in vitro</i>: induction of altered Toll-like receptor expression. Int J Nanomedicine. 13: 8365-78.
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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M368463:200529'

Printed on 11 Aug 2020

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)