

## Datasheet: MCA5891F

**BATCH NUMBER 158806**

<b>Description:</b>	RAT ANTI MOUSE CD283:FITC
<b>Specificity:</b>	CD283
<b>Other names:</b>	TLR3
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	11F8
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<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					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )						
<b>Stabilisers</b>	1% Bovine Serum Albumin						

<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>Immunogen</b>	Purified murine TLR3 extracellular domain protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q99MB1</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">142980</a>    Tlr3    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Rat anti Mouse CD283 antibody, clone 11F8</b> 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 (<a href="#">UniProt: Q99MB1</a>).</p> <p>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.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">J Exp Med. 206: 2967-76.</a></li> <li>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. <a href="#">J Immunol. 186: 2422-9.</a></li> <li>3. McCartney, S.A. <i>et al.</i> (2011) RNA sensor-induced type I IFN prevents diabetes caused by a <math>\beta</math> cell-tropic virus in mice <a href="#">J Clin Invest. 121: 1497-507.</a></li> <li>4. 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(+)/CD8<math>\alpha</math>(+) dendritic cells. <a href="#">Oncoimmunology. 1: 581-592.</a></li> <li>5. Zeng, R. <i>et al.</i> (2016) Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid. <a href="#">Mucosal Immunol. 9 (1): 183-93.</a></li> <li>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. <a href="#">Int J Nanomedicine. 13: 8365-78.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>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.</p>

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA5891F>  
10041

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**Regulatory** For research purposes only

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## 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](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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