

## Datasheet: MCA5891F

|                      |                           |
|----------------------|---------------------------|
| <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>                      | <b>Fluorophore</b>                                                                            | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | 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<br/>Stabilisers</b>   | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                        |                            |                          |
|                                       | 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>        | <b>UniProt:</b><br><a href="#">Q99MB1</a> <a href="#">Related reagents</a>                    |                            |                          |

**Entrez Gene:**[142980](#) Tlr3 [Related reagents](#)

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>                   | <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> ). 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.                                                                                                                                                                                                                                                                                                                                                                                       |
| <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. 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. <a href="#">Oncoimmunology. 1: 581-592.</a></li><li>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 <a href="#">J Clin Invest. 121: 1497-507.</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></ol> |
| <b>Storage</b>                       | Store at +4°C or at -20°C if preferred.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. This product is photosensitive and should be protected from light.<br>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Regulatory</b>                    | 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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