

Datasheet: MCA5891GA

BATCH NUMBER 153429

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| Description: | RAT ANTI MOUSE CD283 |
| Specificity: | CD283 |
| Other names: | TLR3 |
| Format: | Purified |
| 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 | ▪ | | | 1/25 - 1/200 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| Immunofluorescence | ▪ | | | |

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.

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| Target Species | Mouse |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative | 0.09% Sodium Azide. |

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0mg/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 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. [J Exp Med. 206: 2967-76.](#)
 2. Jelinek, I. *et al.* (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. *et al.* (2012) Cross-priming for antitumor CTL induced by soluble Ag + poly(I:C) depends on the TICAM-1 pathway in mouse CD11c(+)/CD8α(+) dendritic cells. [Oncoimmunology. 1: 581-592.](#)
 4. McCartney, S.A. *et al.* (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. *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. [Int J Nanomedicine. 13: 8365-78.](#)
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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5891GA 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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| Goat Anti Rat IgG (STAR73...) | RPE |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight®550 , DyLight®650 , DyLight®800 |
| Rabbit Anti Rat IgG (STAR21...) | HRP |
| Rabbit Anti Rat IgG (STAR16...) | DyLight®800 |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos. , Biotin |
| Rabbit Anti Rat IgG (STAR17...) | FITC |
| Goat Anti Rat IgG (STAR72...) | HRP |
| Goat Anti Rat IgG (STAR69...) | FITC |

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 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 |
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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
'M368464:200529'

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