

Datasheet: MCA5891GA

BATCH NUMBER 153429

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.

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.

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

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

Recommended Negative Controls

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

Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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