

Datasheet: MCA2267GA

Description:	MOUSE ANTI HUMAN CD283
Specificity:	CD283
Other names:	TLR3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TLR3.7
Isotype:	IgG1
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)	■			1/10 - 1/50
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

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.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

Target Species	Human
Species Cross Reactivity	Reacts with: Dog N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Ba/F3 cells transfected with human TLR3 (CD283).

**External Database
Links**

UniProt:

[O15455](#) [Related reagents](#)

Entrez Gene:

[7098](#) TLR3 [Related reagents](#)

RRID AB_2303471

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.

Specificity **Mouse anti Human CD283 antibody, clone TLR3.7** recognizes human and canine TLR3, otherwise known as CD283. TLR3 is a member of the Toll-like receptor (TLR) family and functions as a receptor for double-stranded (ds) RNA.
TLRs are expressed on the cell surface and the endocytic compartment and recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents. They also initiate cell signalling to induce production of cytokines necessary for the innate immunity and subsequent adaptive immunity.

Cell surface expression of TLR3 has been reported on MRC-5 fibroblasts ([Matsumoto et al.2002](#)). Mouse anti Human CD283 antibody, clone TLR3.7 has been shown to suppress poly (I) : poly (C) mediated IFN beta production by these cells.

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

References

1. Matsumoto, M. *et al.* (2002) Establishment of a monoclonal antibody against human Toll-like receptor 3 that blocks double-stranded RNA-mediated signaling. [Biochem Biophys Res Commun. 293 \(5\): 1364-9.](#)
2. Tamassia, N. *et al.* (2008) Activation of an immunoregulatory and antiviral gene expression program in poly(I:C)-transfected human neutrophils. [J Immunol. 181: 6563-73.](#)
3. Maiolini, A. *et al.* (2012) Toll-like receptors 4 and 9 are responsible for the maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis, a large animal model for neutrophilic meningitis. [J Neuroinflammation. 9: 226.](#)
4. Mendoza, C. *et al* (2012) Toll-like receptor 3 activation affects serotonin transporter activity and expression in human enterocyte-like Caco-2 cells. [Cell Physiol Biochem. 30: 187-98.](#)
5. Ibrahim, S. & Steinbach, F. (2007) Non-HLDA8 animal homologue section anti-leukocyte mAbs tested for reactivity with equine leukocytes. [Vet Immunol Immunopathol. 119 \(1-2\): 81-91.](#)

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

**Health And Safety
Information** Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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