

## Datasheet: MCA2702GA

**BATCH NUMBER 161236**

<b>Description:</b>	MOUSE ANTI HUMAN TLR7
<b>Specificity:</b>	TLR7
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4F4
<b>Isotype:</b>	IgG1
<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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	10% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Recombinant human TLR7 (amino acids 451-500) purified from <i>Escherichia coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9NYK1</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">51284</a>    TLR7    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2256006
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human TLR7 antibody, clone 4F4</b> recognizes human TLR7 (toll-like receptor 7), a 121 kDa type I transmembrane protein belonging to the toll-like receptor (TLR) family. TLR7 is predominantly expressed in the spleen, lung and placenta (<a href="#">Chuang et al. 2000</a>).</p> <p>TLRs are highly conserved proteins which play a key role in activation of innate immunity, through the recognition of distinct molecular patterns expressed by infectious agents. TLR7 recognizes and interacts with single-stranded RNA (ssRNA) derived from viruses such as influenza, HIV-1 (human immunodeficiency virus type I) and Sendai, and some siRNAs, resulting in the activation of the MyD88/interleukin-1 receptor-associated kinase (IRAK) signaling pathway, and the production of proinflammatory signaling molecules (<a href="#">Diebold et al. 2004</a>).</p>
<b>Western Blotting</b>	MCA2702GA detects a band of approximately 121 kDa in Ramos cell lysates.
<b>Further Reading</b>	1. Kawai, T. & Akira, S. (2006) TLR signaling. <a href="#">Cell Death Differ. 13 (5): 816-25.</a>
<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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2702GA">https://www.bio-rad-antibodies.com/SDS/MCA2702GA</a> 10049
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

**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)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M383959:210513'

Printed on 12 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)