

Datasheet: MCA2702GA

### **BATCH NUMBER 149746**

Description:	MOUSE ANTI HUMAN TLR7
Specificity:	TLR7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4F4
Isotype:	lgG1
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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.

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

Immunogen         Recombinant human TLR7 (amino acids 451-500) purified from Escherichia coli.           External Database Links         UniProt:					
Links    UniProt: Q9NYK1   Related reagents	Immunogen	Recombinant human TLR7 (amino acids 451-500) purified from Escherichia coli.			
Fusion Partners  Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.  Specificity  Mouse anti Human TLR7 antibody, clone 4F4 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 (Chuang et al. 2000).  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 (Diebold et al. 2004).  Western Blotting  MCA2702GA detects a band of approximately 121 kDa in Ramos cell lysates.  Further Reading  1. Kawai, T. & Akira, S. (2006) TLR signaling. Cell Death Differ. 13 (5): 816-25.  Storage  Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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  Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA2702GA		Q9NYK1 Related reagents  Entrez Gene:			
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Information https://www.bio-rad-antibodies.com/SDS/MCA2702GA 10049	Guarantee	12 months from date of despatch			
Regulatory For research purposes only		https://www.bio-rad-antibodies.com/SDS/MCA2702GA			
	Regulatory	For research purposes only			

# **Related Products**

**Recommended Secondary Antibodies** 

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

RPE

Goat Anti Mouse IgG (STAR76...)

RPE

Rabbit Anti Mouse IgG (STAR13...)

HRP

Goat Anti Mouse IgG (STAR70...)

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) <u>FITC</u>
Goat Anti Mouse IgG (STAR77...) <u>HRP</u>

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

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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 'M367353:200529'

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