

Datasheet: MCA2702GA

Description:	MOUSE ANTI HUMAN TLR7
Specificity:	TLR7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4F4
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			■	
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	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human TLR7 (amino acids 451-500) purified from <i>Escherichia coli</i> .
External Database Links	UniProt: Q9NYK1 Related reagents

Entrez Gene:[51284](#) TLR7 [Related reagents](#)

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 <i>et al.</i> 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 <i>et al.</i> 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	Store at +4°C or at -20°C if preferred. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10303 available at: 10303: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

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Europe

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