

Datasheet: MCA2702GA

BATCH NUMBER 149746

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	0.02% Sodium Azide (NaN ₃)
Stabilisers	10% Glycerol
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	<p>UniProt: Q9NYK1 Related reagents</p> <p>Entrez Gene: 51284 TLR7 Related reagents</p>
RRID	AB_2256006
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>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).</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 (Diebold et al. 2004).</p>
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	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA2702GA 10049
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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...)	FITC

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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'

Printed on 12 Aug 2023

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