

Datasheet: MCA2154T

Description:	RAT ANTI MOUSE TLR4/MD-2	
Specificity:	TLR4/MD-2	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	MTS510	
Isotype:	lgG2a	
Quantity:	25 μg	

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	•			1/10 - 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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Ba/F3 cell line transfected with mouse TLR4 and MD-2.

External Database	W 15. 4
Links	UniProt:
	Q9QUK6 Related reagents
	Entrez Gene:
	21898 Tlr4 Related reagents
Synonyms	Lps
RRID	AB_2205140
Specificity	Rat anti Mouse TLR4/MD-2 antibody, clone MTS510 recognizes mouse toll-like receptor 4 (TLR4), when associated with MD-2 and co-precipitates MD-2 with TLR4. Rat anti Mouse TLR4/MD-2 antibody, clone MTS510 does not detect TLR4 alone. TLR4 mediates the innate immune response to bacterial lipopolysaccharide through co-operation with MD-2 and CD14.
	Clone Rat anti Mouse TLR4/MD-2 antibody, clone MTS510 has been reported to block LPS-induced cytokine production.
	N.B. Clone MTS510 binds to an epitope of TLR4/MD-2 that is lost after LPS stimulation (Akashi et al. 2003).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Akashi, S. et al. (2003) Lipopolysaccharide interaction with cell surface Toll-like receptor. Higher affinity than that with MD-2 or CD14. J Exp Med. 198 (7): 1035-42. Sack, U. et al. (2005) A novel model of fibroblast-mediated cartilage destruction. Scand J Immunol. 61 (1): 18-28.
	3. Dimayuga, F.O. <i>et al.</i> (2005) Estrogen and brain inflammation: effects on microglial expression of MHC, costimulatory molecules and cytokines. <u>J Neuroimmunol. 161 (1-2): 123-36.</u>
	4. Stott, B. & Korbelik, M. (2007) Activation of complement C3, C5, and C9 genes in tumors treated by photodynamic therapy. <u>Cancer Immunol Immunother. 56 (5): 649-58.</u>
	5. Becker, M. <i>et al.</i> (2006) Expression of the class A macrophage scavenger receptor on specific subpopulations of murine dendritic cells limits their endotoxin response. <u>Eur J Immunol. 36 (4): 950-60.</u>
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.

12 months from date of despatch

Guarantee

Health And Safety Material Safety Datasheet documentation #10040 available at:

Information 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...) FITC

Goat Anti Rat IgG (STAR69...) FITC

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR21...)

HRP

Rabbit Anti Rat IgG (STAR16...) <u>DyLight®800</u>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) <u>DyLight®800</u>

Goat Anti Rat IgG (STAR72...) HRP

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL (MCA1212)

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 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

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 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

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