

Datasheet: MCA2154A488

Description:	RAT ANTI MOUSE TLR4/MD-2:Alexa Fluor® 488	
Specificity:	TLR4/MD-2	
Format:	ALEXA FLUOR® 488	
Product Type:	Monoclonal Antibody	
Clone:	MTS510	
Isotype:	lgG2a	
Quantity:	100 TESTS/1ml	

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.biorad-antibodies.com/protocols.

No **Not Determined Suggested Dilution** Yes Flow Cytometry Neat

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 conjugated to Alexa Fluor® 488 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	Alexa Fluor®488	495	519	
Buffer Solution	Phosphate buffered saline			
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.0	05 mg/ml		
Immunogen	Ba/F3 cell line transfected with mouse TLR4 and MD-2.			
External Database Links	UniProt:			

Q9QUK6 Related reagents

Entrez Gene:

21898 Tlr4 Related reagents

Synonyms	Lps
RRID	AB_2205141
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.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).
References	 Akashi, S. <i>et al.</i> (2003) Lipopolysaccharide interaction with cell surface Toll-like receptor 4-MD-2: higher affinity than that with MD-2 or CD14. J Exp Med. 198 (7): 1035-42. Sack, U. <i>et al.</i> (2005) A novel model of fibroblast-mediated cartilage destruction. Scand J Immunol. 61 (1): 18-28. Dimayuga, F.O. <i>et al.</i> (2005) Estrogen and brain inflammation: effects on microglial expression of MHC, costimulatory molecules and cytokines. J Neuroimmunol. 161 (1-2): 123-36. Stott, B. & Korbelik, M. (2007) Activation of complement C3, C5, and C9 genes in tumors treated by photodynamic therapy. Cancer Immunol Immunother. 56 (5): 649-58. 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. Eur J Immunol. 36 (4): 950-60.
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. This product is photosensitive and should be protected from light. 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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA1212A488)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

North & South Tel: +1 800 265 7376 America

Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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