

Datasheet: MCA2154A488T

Description:	RAT ANTI MOUSE TLR4/MD-2:Alexa Fluor® 488
Specificity:	TLR4/MD-2
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	MTS510
lsotype:	lgG2a
Quantity:	25 TESTS/0.25ml

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 <u>www.bio-</u>						
	rad-antibodies.com/pr	otocols.					
		Yes N	0	Not Determined	Suggested Dilution		
	Flow Cytometry	•			Neat		
	Where this antibody h	as not been teste	ed for us	e in a particular te	echnique 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 conjugate	ed to Alexa Fluor	® 488 - I	liquid			
Max Ex/Em	Fluorophore	Excitation Max	(nm) Er	mission 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 0.05 mg/ml						
Immunogen	Ba/F3 cell line transfected with mouse TLR4 and MD-2.						
External Database Links	UniProt: <u>Q9QUK6</u> <u>Relat</u>	ted reagents					

Entrez Gene:

21898 TIr4 Related reagents

Synonyms	Lps
RRID	AB_2205139
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 (<u>Akashi <i>et al.</i> 2003</u>).
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

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Health And Safety	Material Safety Datasheet documentation #10041 available at:
Information	10041: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</u>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.o	com	Email: antibody_sales_uk@bio-rad	.com	Email: antibody_sales_de@bio-rad.com

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