

Datasheet: MCA2154

Description:	RAT ANTI MOUSE TLR4/MD-2
Specificity:	TLR4/MD-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MTS510
Isotype:	IgG2a
Quantity:	0.25 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
Immunohistology - Resin			▪	
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 Links	<p>UniProt: Q9QUK6 TLR4_MOUSE Related reagents</p> <p>Entrez Gene: 21898 Tlr4 Related reagents</p>
Synonyms	Lps

Specificity MCA2154 recognises mouse toll-like receptor 4 (TLR4), when associated with MD-2 and co-precipitates MD-2 with TLR4. MCA2154 does not detect TLR4 alone. TLR4 mediates the innate immune response to bacterial lipopolysaccharide through co-operation with MD-2 and CD14.

Clone MTS510 has been reported to block LPS-induced cytokine production. Removal of sodium azide is recommended prior to use in functional studies, Serotec recommend the use of [EQU003](#) for this purpose.

N.B. Clone MTS510 binds to an epitope of TLR4/MD-2 that is lost after LPS stimulation (2).

Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Method sheets are available on request
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References	<ol style="list-style-type: none">1. Akashi, S. <i>et al.</i> (2000) Cell surface expression and lipopolysaccharide signaling via the toll-like receptor 4-MD-2 complex on mouse peritoneal macrophages. J. Immunol. 164: 3471 - 3475.2. 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. 198:1035-1042.
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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.
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet Documentation #10040 available at: http://www.abdserotec.com/uploads/MSDS/10040.pdf
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Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR131...)	Alk. Phos., DyLight@488
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (STAR80...)	Biotin, FITC
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@549, DyLight@649, DyLight@800
Rabbit Anti Rat IgG (STAR20...)	RPE
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

Other formats and applications

This reagent is also available in a [ALEXA FLUOR@ 488](#) format

For research purposes only, unless otherwise specified in writing by AbD Serotec.

'M179069:110225'



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