

Datasheet: MCA2061B

Description:	MOUSE ANTI HUMAN CD284:Biotin
Specificity:	CD284
Other names:	TLR4
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	HTA125
Isotype:	IgG2a
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	■			

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
Species Cross Reactivity	<p>Reacts with: Rhesus Monkey, Guinea Pig, Pig, Dog, Bovine</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG conjugated to biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<p>0.09% sodium azide (NaN₃)</p> <p>1% bovine serum albumin</p>

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Ba/F3 cell line expressing TLR4 (CD284).
External Database Links	<p>UniProt: O00206 Related reagents</p> <p>Entrez Gene: 7099 TLR4 Related reagents</p>
RRID	AB_324162
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 CD284 antibody, clone HTA125 recognizes the human Toll like receptor 4 (TLR4) cell surface antigen.</p> <p>TLR4, also known as CD284, has been demonstrated to act as a receptor for LPS on human monocytes and macrophages. TLR4 signalling of LPS stimulation requires the presence of the MD-2 molecule.</p> <p>TLR4 is weakly expressed by resting cells, but is upregulated following stimulation with LPS.</p> <p>This antibody has been demonstrated to block activation of monocytes with LPS. The use of a preservative free format of Mouse anti Human CD284 antibody, clone HTA125 (MCA2061EL) is recommended for functional assays.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells or cells or 100µl whole blood
References	<ol style="list-style-type: none"> 1. Shimazu, R. <i>et al.</i> (1999) MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4. J Exp Med. 189 (11): 1777-82. 2. Sugawara, S. <i>et al.</i> (2000) Proteolysis of human monocyte CD14 by cysteine proteinases (gingipains) from <i>Porphyromonas gingivalis</i> leading to lipopolysaccharide hyporesponsiveness. J Immunol. 165: 411-8. 3. Yang, S. <i>et al.</i> (2001) Synergistic effect of muramyl dipeptide with lipopolysaccharide or lipoteichoic acid to induce inflammatory cytokines in human monocytic cells in culture. Infect Immun. 69 (4): 2045-53. 4. Kawahara T <i>et al.</i> (2001) Type I <i>Helicobacter pylori</i> lipopolysaccharide stimulates toll-like receptor 4 and activates mitogen oxidase 1 in gastric pit cells. Infect Immun. 69 (7): 4382-9. 5. Baumgarten, G. <i>et al.</i> (2001) <i>In vivo</i> expression of proinflammatory mediators in the adult heart after endotoxin administration: the role of toll-like receptor-4. J Infect Dis. 183: 1617-24. 6. Medvedev, A.E. <i>et al.</i> (2001) Induction of tolerance to lipopolysaccharide and

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Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2061B 10041
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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