

## Datasheet: MCA2152GA

<b>Description:</b>	MOUSE ANTI HUMAN CD282
<b>Specificity:</b>	CD282
<b>Other names:</b>	TLR2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TLR2.3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml

<b>Immunogen</b>	CHO cell line transfected with human TLR2 (CD282).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O60603</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7097</a>    TLR2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	TIL4
<b>RRID</b>	AB_931710
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the NS0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD282 antibody, clone TL2.3</b> recognizes human TLR2, otherwise known as CD282. TLR2 is a member of the Toll-like receptor (TLR) family and is expressed primarily by peripheral blood monocytes.</p> <p>TLRs are expressed on the cell surface and the endocytic compartment and recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents. They also initiate cell signalling to induce production of cytokines necessary for the innate immunity and subsequent adaptive immunity. TLR2 is reported to respond to a diverse range of bacterial cell wall components, mediating the innate immune response in co-operation with MD-2.</p> <p>Mouse anti Human CD282 antibody, clone TL2.1 is reported to block TLR2 function.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>Histology Positive Control Tissue</b>	Tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>1. Flo, T.H. <i>et al.</i> (2001) Differential expression of Toll-like receptor 2 in human cells. <a href="#">J Leukoc Biol. 69 (3): 474-81.</a></li> <li>2. Yilmaz, A. <i>et al.</i> (2006) Differential effects of statins on relevant functions of human monocyte-derived dendritic cells. <a href="#">J Leukoc Biol. 79 (3): 529-38.</a></li> <li>3. Lee, R.M. <i>et al.</i> (2006) Influenza a viruses upregulate neutrophil toll-like receptor 2 expression and function. <a href="#">Scand J Immunol. 63 (2): 81-9.</a></li> <li>4. Karlsson, K.R. <i>et al.</i> (2008) Homogeneous monocytes and macrophages from human embryonic stem cells following coculture-free differentiation in M-CSF and IL-3. <a href="#">Exp Hematol. 36 (9): 1167-75.</a></li> <li>5. Sels, J.W. <i>et al.</i> (2012) Fractional flow reserve is not associated with inflammatory markers in patients with stable coronary artery disease. <a href="#">PLoS One. 7 (10): e46356.</a></li> <li>6. Jankovicova, K. <i>et al.</i> (2012) TLR2 in pleural fluid is modulated by talc particles during pleurodesis. <a href="#">Clin Dev Immunol. 2012: 158287.</a></li> <li>7. Krejsek, J. <i>et al.</i> (2013) TLR2 and TLR4 expression on blood monocytes and</li> </ol>

- granulocytes of cardiac surgical patients is not affected by the use of cardiopulmonary bypass. [Acta Medica \(Hradec Kralove\). 56 \(2\): 57-66.](#)
8. Krejsek, J. *et al.* (2013) TLR2 and TLR4 expression on blood monocytes and granulocytes of cardiac surgical patients is not affected by the use of cardiopulmonary bypass. [Acta Medica \(Hradec Kralove\). 56 \(2\): 57-66.](#)
9. Jaedicke, K.M. *et al.* (2013) Leptin up-regulates TLR2 in human monocytes. [J Leukoc Biol. 93 \(4\): 561-71.](#)
10. Al-Hassi, H.O. *et al.* (2014) Altered human gut dendritic cell properties in ulcerative colitis are reversed by *Lactobacillus plantarum* extracellular encrypted peptide STp. [Mol Nutr Food Res. 58 \(5\): 1132-43.](#)
11. Mann, E.R. *et al.* (2014) Human gut dendritic cells drive aberrant gut-specific t-cell responses in ulcerative colitis, characterized by increased IL-4 production and loss of IL-22 and IFN $\gamma$ . [Inflamm Bowel Dis. 20 \(12\): 2299-307.](#)
12. Larsson, O. *et al.* (2018) Substance P represents a novel first-line defense mechanism in the nose. [J Allergy Clin Immunol. 141 \(1\): 128-136.e3.](#)

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**Further Reading** 1. Lien, E. *et al.* (1999) Toll-like receptor 2 functions as a pattern recognition receptor for diverse bacterial products. [J Biol Chem. 274 \(47\): 33419-25.](#)

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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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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