

## Datasheet: MCA2152PET

<b>Description:</b>	MOUSE ANTI HUMAN CD282:RPE
<b>Specificity:</b>	CD282
<b>Other names:</b>	TLR2
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TLR2.3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 TESTS

## Product Details

**RRID** AB\_2271922

**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	■			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** Human

**Product Form** Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Reconstitution** Reconstitute in 0.25 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 1% Bovine Serum Albumin  
 5% Sucrose

**Immunogen** CHO cell line transfected with human TLR2 (CD282).

**External Database Links** **UniProt:**  
[O60603](https://www.uniprot.org/entry/O60603) [Related reagents](#)

**Entrez Gene:**[7097](#) TLR2 [Related reagents](#)

<b>Synonyms</b>	TIL4
<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>References</b>	<ol style="list-style-type: none"><li>1. Lien, E. <i>et al.</i> (1999) Toll-like receptor 2 functions as a pattern recognition receptor for diverse bacterial products. <a href="#">J Biol Chem. 274 (47): 33419-25.</a></li><li>2. 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>3. 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>4. Jaedicke, K.M. <i>et al.</i> (2013) Leptin up-regulates TLR2 in human monocytes. <a href="#">J Leukoc Biol. 93 (4): 561-71.</a></li><li>5. 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>6. Krejsek, J. <i>et al.</i> (2013) TLR2 and TLR4 expression on blood monocytes and granulocytes of cardiac surgical patients is not affected by the use of cardiopulmonary bypass. <a href="#">Acta Medica (Hradec Kralove). 56 (2): 57-66.</a></li><li>7. 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>8. 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>9. Larsson, O. <i>et al.</i> (2018) Substance P represents a novel first-line defense mechanism in the nose. <a href="#">J Allergy Clin Immunol. 141 (1): 128-136.e3.</a></li></ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA929PE\)](#)

### Recommended Useful Reagents

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

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

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