

Datasheet: MCA2152GA

Description:	MOUSE ANTI HUMAN CD282
Specificity:	CD282
Other names:	TLR2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TLR2.3
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	■			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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	CHO cell line transfected with human TLR2 (CD282).
External Database Links	UniProt: O60603 Related reagents

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

Synonyms	TIL4
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS0 myeloma cell line.
Specificity	Mouse anti Human CD282 antibody, clone TL2.3 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. 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. Mouse anti Human CD282 antibody, clone TL2.1 is reported to block TLR2 function.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Tonsil
References	1. Lien, E. <i>et al.</i> (1999) Toll-like receptor 2 functions as a pattern recognition receptor for diverse bacterial products. J Biol Chem. 274 (47): 33419-25. 2. Flo, T.H. <i>et al.</i> (2001) Differential expression of Toll-like receptor 2 in human cells. J Leukoc Biol. 69 (3): 474-81. 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. PLoS One. 7 (10): e46356. 4. Jaedicke, K.M. <i>et al.</i> (2013) Leptin up-regulates TLR2 in human monocytes. J Leukoc Biol. 93 (4): 561-71. 5. Yilmaz, A. <i>et al.</i> (2006) Differential effects of statins on relevant functions of human monocyte-derived dendritic cells. J Leukoc Biol. 79 (3): 529-38. 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. Acta Medica (Hradec Kralove). 56 (2): 57-66. 7. Jankovicova, K. <i>et al.</i> (2012) TLR2 in pleural fluid is modulated by talc particles during pleurodesis. Clin Dev Immunol. 2012: 158287. 8. Lee, R.M. <i>et al.</i> (2006) Influenza A viruses upregulate neutrophil toll-like receptor 2 expression and function. Scand J Immunol. 63 (2): 81-9. 9. Larsson, O. <i>et al.</i> (2018) Substance P represents a novel first-line defense mechanism in the nose. J Allergy Clin Immunol. 141 (1): 128-136.e3.
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.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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