

Datasheet: MCA2151

Description:	MOUSE ANTI HUMAN CD282
Specificity:	CD282
Other names:	TLR2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TL2.1
Isotype:	lgG2a
Quantity:	0.2 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 <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			1/10 - 1/50	
	Immunohistology - Frozen	-				
	Immunohistology - Paraffin					
	ELISA					
	Immunoprecipitation	-				
	Western Blotting					
	Functional Assays (1)	-				
	Where this product has n	ot been t	tested for	use in a particular tech	nique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given					
	•	guide only. It is recommended that the user titrates the product for use in their own stem using appropriate negative/positive controls.				
	• •					
	(1) This product contain	-	•		s recommended prior	
	• •		ili aziue,	removal by ularysis is	s recommended prior	
	to use in functional ass	ays.				
Target Species	Human					
Species Cross	Reacts with: Marmoset, 0	Cynomolo	gus monk	ey, Rhesus Monkey, Do	og	
Reactivity	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.		onginat			
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	CHO-TLR2 cells.		
External Database Links	UniProt: <u>O60603</u> <u>Related reagents</u> Entrez Gene: <u>7097</u> TLR2 <u>Related reagents</u>		
Synonyms	TIL4		
RRID	AB_323980		
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 TL2.1 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. 		
	innate immunity and subsequent adaptive immunity. TLR2 is reported to respond to a diverse range of bacterial cell wall components,		
Flow Cytometry	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.		
Flow Cytometry Histology Positive Control Tissue	 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. 		

	inte dendritie celle, Infact Immun, 70: 2674.9			
	into dendritic cells. Infect Immun. 72: 2671-8.			
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	mature than their CD1a+ counterparts. <u>Int Immunol. 19: 1271-9.</u>			
	7. Burgener, I.A. <i>et al.</i> (2008) Antibodies specific for human or murine Toll-like receptors			
	detect canine leukocytes by flow cytometry. <u>Vet Immunol Immunopathol. 124: 184-91.</u>			
	8. Faure, E. <i>et al.</i> (2001) Bacterial lipopolysaccharide and IFN-gamma induce Toll-like			
	receptor 2 and Toll-like receptor 4 expression in human endothelial cells: role of NF-kappa			
	B activation <u>J Immunol. 166: 2018-24.</u>			
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	diseases. <u>Gastroenterology. 129: 50-65.</u>			
	10. Melmed, G. et al. (2003) Human intestinal epithelial cells are broadly unresponsive to			
	Toll-like receptor 2-dependent bacterial ligands: implications for host-microbial interactions			
	in the gut. <u>J Immunol. 170: 1406-15.</u>			
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	induced CXCR6 expression in human aortic smooth muscle cells. <u>Biochem Biophys Res</u>			
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	12. Lindsay, J.O. et al. (2005) Clinical, microbiological, and immunological effects of			
	fructo-oligosaccharide in patients with Crohn's disease. Gut. 55: 348-55.			
	13. Maiolini, A. et al. (2012) Toll-like receptors 4 and 9 are responsible for the			
	maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis,			
	a large animal model for neutrophilic meningitis. J Neuroinflammation. 9: 226.			
	14. Flo, T.H. et al. (2000) Human toll-like receptor 2 mediates monocyte activation by			
	Listeria monocytogenes, but not by group B streptococci or lipopolysaccharide. <u>J</u>			
	Immunol. 164 (4): 2064-9.			
	15. Flo, T.H. <i>et al.</i> (2002) Involvement of toll-like receptor (TLR) 2 and TLR4 in cell			
	activation by mannuronic acid polymers. J Biol Chem. 277 (38): 35489-95.			
	16. Huang, D. <i>et al.</i> (2016) Hyperoxia induces inflammation and regulates cytokine			
	production in alveolar epithelium through TLR2/4-NF-κB-dependent mechanism <u>Eur Rev</u>			
	Med Pharmacol Sci. 20: 1399-410.			
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.			
Guarantee	18 months from date of despatch.			
Health And Safety	Material Safety Datasheet documentation #10040 available at:			
Information	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 (STAR77)	HRP				
Rabbit Anti Mouse IgG (STAR12)	RPE				
Rabbit Anti Mouse IgG (STAR8)	DyLight®800				
Goat Anti Mouse IgG (STAR76)	RPE				
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>				
Human Anti Mouse IgG2a (HCA037)	HRP				
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®680,				
	DyLight®800, FITC, HRP				
Rabbit Anti Mouse IgG (STAR9)	FITC				
Rabbit Anti Mouse IgG (STAR13)	HRP				
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>					
Recommended Negative Controls					
MOUSE IgG2a NEGATIVE CONTROL (MCA9	<u>)29)</u>				

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