

TLR2 Monoclonal Antibody (6C2), Biotin

Catalog NumberMA1-40049

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b	Published species	Mouse
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *1:50
Clone	6C2	Immunohistochemistry (Frozen) (IHC (F))	1:50
Immunogen	Murine TLR2/CD282.	Immunoprecipitation (IP)	1:50
Conjugate	Biotin	Published Applications	
Form	Liquid	Flow Cytometry (Flow)	See 1 publications below
Concentration	0.1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	4° C		

**Product specific information**

MA1-40049 detects TLR2 from mouse samples. MA1-40049 has been successfully used in flow cytometry, immunohistochemistry-frozen, immunofluorescence, and immunoprecipitation applications. The MA1-40049 immunogen is mouse TLR2/CD282.

**Background/Target Information**

TLR2 is a member of the Toll-like receptor (TLR) family which play a fundamental role in pathogen recognition and activation of innate immunity. TLR proteins act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors such as Protein Kinase C (PKC) alpha/beta and NF-kappa-B. TLR2 can form heterodimers with either TLR1 or TLR6, and as a heterodimer, can recognize a variety of bacterial and mycoplasma lipoproteins respectively. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. The various TLRs exhibit different patterns of expression. TLR2 is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB. TLR2 aids in the recognition of pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. Ten human homologs of TLRs (TLR1-10) have been described. TLR2 is expressed in human cells such as tonsils, microglia, lymph nodes, and appendices, activated B-cells in germinal centers. CD14+ monocytes express the highest level of TLR2 followed by CD15+ granulocytes, CD19+ B-cells, and CD3+ T-cells. The expression of TLR2 on different cell types are regulated by different immune response modifiers. For example, LPS, GM-CSF, IL-1, and IL-10 up regulates TLR2 whereas IL-4, IFN-gamma, and TNF down regulate TLR2 expression in monocytes.

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PubMed References For TLR2 Monoclonal Antibody (6C2), Biotin

1 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	<p>MA140049 was used in flow cytometry to discover structural elements that distinguish Grp94 from Hsp90</p> <p>PloS one ( 2017; 11: )</p> <p><b>"Exploring the Functional Complementation between Grp94 and Hsp90."</b></p> <p>Author(s):Maharaj KA,Que NL,Hong F,Huck JD,Gill SK,Wu S,Li Z,Gewirth DT</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0166271">http://dx.doi.org/10.1371/journal.pone.0166271</a></p>

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