

TLR2

Mouse Anti-Human Toll-like Receptor 2 Clone TL2.1 mAb

Catalog No.	MON4030	Quantity:	1 ml
Alternate Names:	CD282, TIL4, toll/interleukin 1 receptor-like 4		
Description:	<p>The monoclonal antibody TL2.1 is specific for human Toll-like receptor 2 (TLR2, CD282). Toll-like receptors (TLR) are highly conserved throughout evolution and have been implicated in the innate defense to many pathogens. In <i>Drosophila</i> toll is required for the anti-fungal response, while the related 18-wheeler is involved in antibacterial defenses. In mammals, TLR identified as type I transmembrane signaling receptors with pattern recognition capabilities, have been implicated in the innate host defense to pathogens. TLR2 has been identified as a receptor that is central to the innate immune response to lipoproteins of Gram-negative bacteria, several whole Gram-positive bacteria, as well as a receptor for peptidoglycan and lipoteichoic acid and other bacterial cell membrane products. A functional interaction between TLR2 and TLR6 in the cellular response to various bacterial products has been discovered. The currently accepted paradigm regards TLR2 as an essential receptor for many eubacterial cell wall components, including lipoproteins and peptidoglycan. Bacterial species as diverse as mycobacteria, spirochetes, mycoplasma, <i>Staphylococcus aureus</i>, and <i>Streptococcus pneumoniae</i> have all been shown to mediate cellular activation via TLR2 (CD282). The TL2.1 monoclonal antibody is specific for human Toll-like receptor 2 (TLR2, CD282). TL2.1 is a TLR2 function blocking antibody that is useful for studies on the role of TLR2 as a pattern recognition receptor in microbial products induced cytokine production by TLR2 bearing cells such as human peripheral blood mononuclear cells. The antibody can be used for immunoprecipitation of human TLR2 (approximately 90 kDa). The monoclonal antibody TL2.1 is cross reactive with canine, cynomolgus monkey, rhesus monkey and marmoset monkey.</p>		
Gene ID:	7097		
Host:	Mouse		
Isotype:	IgG2a		
Clone:	TL2.1		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications:	The monoclonal antibody TL2.1 can be used for flow cytometry, immunohistology on frozen and paraffin sections, immunoprecipitation, Western blot and immuno assays. Furthermore the antibody is useful for neutralization of TLR2, it blocks TLR2 agonists induced cellular activation.		
Application Notes:	For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and		



determine their own optimal dilutions. The typical starting working dilution is 1:50. For neutralization of biological activity in vitro dilutions have to be made according to the amounts of TLR2 to be inactivated. Before use in biological assays, the product must be filter sterilized and depending on the concentration to be used dialyzed against culture medium to remove the sodium azide added. Please inquire for availability of azide free solutions.

Storage & Stability: Product should be store at 4°C. Under recommended storage conditions, product should be stable for one year.

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