TLR2
Mouse Anti-Human Toll-like Receptor 2 Clone TL2.3 mAb

Catalog No.	MON4031	**Quantity:**	1 ml

Alternate Names: CD282, TIL4, toll/interleukin 1 receptor-like 4

Description: Toll-like receptors (TLR) are highly conserved throughout evolution and have been implicated in the innate defense to many pathogens. In Drosophila, 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, Staphylococcus aureus, and Streptococcus pneumoniae have all been shown to mediate cellular activation via TLR2 (CD282). The monoclonal antibody TL2.3 is specific for human TLR2 (CD282). TL2.3 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 monoclonal antibody TL23 is cross reactive with canine TLR2.

Gene ID: 7097

Host: Mouse

Isotype: IgG2b

Clone: TL2.3

Formulation: 1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% BSA.

Applications: The monoclonal antibody TL2.3 can be used for Western blotting, immuno assay and flow cytometry. Furthermore the antibody is useful for immunofluorescence, immunohistology on frozen sections and functional studies. The monoclonal antibody can be used for stimulation
of T cells.

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

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