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10-3514: Monoclonal Antibody to Human TLR1 (Clone : GD2.F4)(Discontinued)

Clonality :	Monoclonal
Clone Name :	GD2.F4
Application :	Functional Assay,IHC,FACS
Reactivity :	Human
Gene :	TLR1Â
Gene ID :	7096
Uniprot ID :	Q15399
Format :	Purified
Alternative Name :	CD281, toll-like receptor 1, TLR1Fc
Isotype :	Mouse IgG1
Immunogen Information :	HeLa cells transfected with TLR1 mRNA

Description

The monoclonal antibody 10-3514 reacts with human TLR1. Toll-like receptors (TLR) are highly conserved throughout evolution and play an essential role in recognizing conserved motifs found in various pathogens and initiating an appropriate innate immune response. In human, ten members of the TLR family have been identified as type I transmembrane signaling receptors containing multiple copies of leucine rich repeats in the extracellular domain and an interleukin-1 (IL-1) receptor motif in the cytoplasmic domain. Mammalian responsiveness to microbial products may be mediated by combinations of TLRs, for example a co-operative effect is observed between TLR1 and TLR2- in response to bacterial lipoproteins. On the other hand, TLR 1 was shown to have the capacity to abrogate TLR4 signaling. In general, TLR1 is expressed at higher levels as compared to other TLRs. The highest expression of TLR1 is found in monocytes but it can also be expressed by macrophages, dendritic cells, B, T, and NK cells. In recent studies, several human TLR1 polymorphisms have been associated with impaired mycobacterial signaling and susceptibility to tuberculosis.

Product Info

Amount :	Monoclonal Antibody to Human TLR1 (Clone : GD2.F4)(Discontinued) / 500 µg
Content :	0.5 mg, 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.
Storage condition :	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Application Note

FACS: Antibody GD2.F4 stains the extracellular domain of TLR1. Monocytes were resuspended in PBS, 0.1% BSA, 0.02% NAN3 containing 15 µg/ml GD2.F4. As negative control an IgG1 isotype control was used . IHC-P: Tissue sections were pretreated with Target Retrieval solution, 1% Triton X-100 to improve membrane permeability and 0.03% hydrogen peroxide to quench endogenous peroxidases . Tissue sections were blocked with 2% FCS . IHC-F: Tissue sections were blocked with normal horse serum prior to staining . FS: Antibody GD2.F4e was used to inhibit cytokine production of stimulated PBMCs .