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10-3522: Monoclonal Antibody to TLR4 (Clone: 3C3)(Discontinued)

Clonality: Monoclonal

Clone Name: 3C3

Application : Functional Assay,FACS

Reactivity: Human
Gene: TLR4
Gene ID: 7099
Uniprot ID: 000206
Format: Purified
Isotype: Mouse IgG1

Immunogen Information: CHO cells expressing chimeric human TLR4/MD-2 fusion protein

Description

The monoclonal antibody 10-3522 reacts with human Toll-like receptor 4 (TLR4, CD284). TLRs belong to a family of proteins that specifically recognize and sense microbial products. They are highly conserved throughout evolution. In Drosophila, toll is required for the anti-fungal response, while the related 18-wheeler is involved in antibacterial defences. TLRs identified as type I transmembrane signalling receptors act as innate immune recognition receptors against many pathogens. TLR4 is a functional receptor for gram-negative bacterial lipopolysaccharides (LPS). TLR4 associates with MD-2 which is absolutely required for LPS-induced activation of TLR4. TLR4 has been identified next to MD-2 and CD14 as a receptor that is central to the innate immune response to LPS of Gram-negative bacteria. The monoclonal antibody 3C3 is a TLR4 function-blocking antibody that is useful for studies on the role of TLR4 as a receptor for LPS induced cytokine production by TLR4 bearing cells.

Product Info

Amount : Monoclonal Antibody to TLR4 (Clone : 3C3)(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.

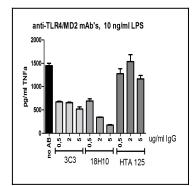


Figure-1: Functional study of human TLR4/MD-2 antibodies on TNF production in a whole blood model upon treatment with LPS 10 ng/ml.