

Recombinant Human TLR4 Protein, DYKDDDDK-tagged

Cat. No. TLR4-652H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human toll like receptor 4(TLR4) protein, transcript variant 1(NM_138554), with a DYKDDDDK tag, was expressed in human cells.

Species Human

Source Human Cells

Description

The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This receptor has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Multiple transcript variants encoding different isoforms have been found for this gene.

Form Purified protein formulated in a sterile solution of TBS buffer, pH7.186, without any preservatives.

Molecular Mass 93.2 kDa

Endotoxin Endotoxin level is < 0.1 ng/g of protein (<1EU /g)

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Purity >90% by SDS-PAGE gel and Coomassie Blue staining

Applications Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

GENE INFORMATION

Gene Name TLR4 toll-like receptor 4 [Homo sapiens]

Official Symbol TLR4

Synonyms TLR4; toll-like receptor 4; CD284; hToll; TLR 4; homolog of Drosophila toll; TOLL; TLR-4; ARMD10;

Gene ID 7099

mRNA Refseq NM_003266

Protein Refseq NP_003257

UniProt ID O00206

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