

Recombinant Human TLR4, MYC/DDK-tagged

Cat. No. TLR4-289H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Homo sapiens toll-like receptor 4 (TLR4), transcript variant 1, fused with C-terminal MYC/DDK tag, was expressed in human cells.
Species	Human
Source	HEK293
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 (PAMPs) 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 is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It 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. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain.
Form	10% glycerol, 100 mM glycine, 25 mM Tris-HCl, pH 7.3.
Molecular Weight	93.2 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining.

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Concentration	>50 ug/ml as determined by BCA
Storage	Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
GENE INFORMATION	
Gene Name	TLR4 toll-like receptor 4 [Homo sapiens]
Official Symbol	TLR4
Synonyms	TLR4; toll-like receptor 4; TOLL; CD284; TLR-4; ARMD10; toll-like receptor 4; hToll; homolog of Drosophila toll; CD284 antigen; OTTHUMP00000022807
Gene ID	7099
mRNA Refseq	NM_003266
Protein Refseq	NP_003257
MIM	603030
UniProt ID	O00206
Chromosome Location	9q33.1
Pathway	Activated TLR4 signalling; Amoebiasis; IKK complex recruitment mediated by RIP1; Immune System; Influenza A; Innate Immune System; Leishmaniasis; MyD88 cascade initiated on plasma membrane; Pathogenic Escherichia coli infection; Pertussis; Rheumatoid arthritis; TRAF6 mediated induction of TAK1 complex; Toll Like Receptor

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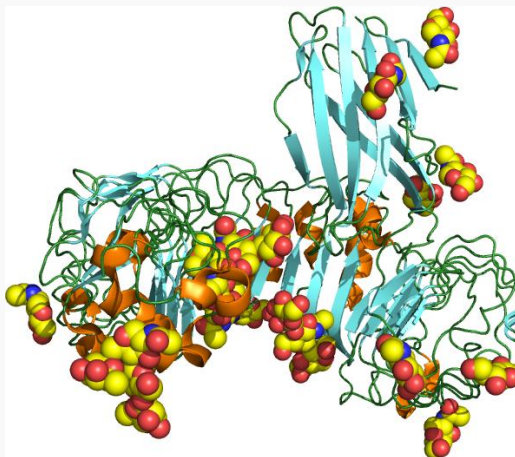
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2 (TLR2) Cascade; Toll Receptor Cascades; Toll-like receptor signaling pathway

Function

lipopolysaccharide binding; lipopolysaccharide receptor activity; phosphatidylinositol 3-kinase binding; protein binding; receptor activity; membrane signaling receptor activity

PDB rendering based on 2z64.



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