

Recombinant Human TLR4

Cat. No. TLR4-293H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TLR4 full-length ORF recombinant protein without tag was expressed in wheatgerm.
Species	Human
Source	Wheat Germ
Description	<p>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.</p>
Form	25mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Weight	99.7kDa
Sequences of	MPLLNLSLDLSLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMTKCIQGLAGLEVHRL

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aminoacids

VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLVS
 VTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPS
 LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNQVITMSSNFLGLEQLEHLDFQH
 SNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLKMAGNSFQENFLP
 DIFTELRLNTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ
 VLDYSLNHIMTSKKQELQHFPSSLAFNLNTQNDFACTCEHQSFQWIKDQRQLLVEV
 ERMECATPSDKQGMPVLSLNICQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLMLLA
 GCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA
 NIIHEGFHKSARKVIVVVSQHFQSRWCIFEYEAQWQFLSSRAGIIFIVLQKVEKTLR
 QQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQE
 ATSI

Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing. Best use within three months from the date of receipt of this protein.

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; CD284antigen; OTTHUMP00000022807

Gene ID

[7099](#)

mRNA Refseq

[NM_003266](#)

Protein Refseq


[NP_003257](#)

MIM

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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 10 (TLR10) Cascade; Toll Like Receptor 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

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