

Recombinant Human TLR4, GST-tagged

Cat. No. TLR4-292H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HumanTLR4 full-length ORF (1 aa-639 aa) recombinant protein fused with GST-tag atN-terminal was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a member of the Toll-likereceptor (TLR) family which plays a fundamental role in pathogen recognitionand activation of innate immunity. TLRs are highly conserved from Drosophilato humans and share structural and functional similarities. They recognizepathogen-associated molecular patterns (PAMPs) that are expressed oninfectious agents, and mediate the production of cytokines necessary for thedevelopment of effective immunity. The various TLRs exhibit different patternsof expression. This receptor is most abundantly expressed in placenta, and inmyelomonocytic subpopulation of the leukocytes.
Form	50mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Weight	99.7kDa
Purification	GlutathioneSepharose 4 Fast Flow
Sequences of aminoacids	MPLLNLSDLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMTKCIQGLAGLEVHRL VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLVS VTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPS

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LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGVITMSSNFLGLEQLEHLDFQH
 SNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLMAGNSFQENFLP
 DIFTELRNLTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ
 VLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFQWIKDQRQLLVEV
 ERMECATPSDKQGMPVLSLITCQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLMLLA
 GCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA
 NIIHEGFHKSRKVIVVVSQHFIQSRWCIFEYEIAQTWQFLSSRAGIIFIVLQKVEKTLLR
 QQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQE
 ATSI

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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 603030

UniProt ID [O00206](#)

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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
PDB rendering based on 2z64.	