

Recombinant Human TLR9 protein

Cat. No. TLR9-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR9 was expressed in E. coli.
Species	Human
Source	E.coli
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 gene is preferentially expressed in immune cell rich tissues, such as spleen, lymph node, bone marrow and peripheral blood leukocytes. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	41.2kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- TLP AFLPCELQPH GLVNCNWLFL KSVPHFSMAA PRGNVTLSLS SSNRIHHLHD SDF AHLPSLR HLN LKWN CPP VGLSPMHFPC HMTIEPSTFL AVPTLEELNL SYN NIMTVPA

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LPKSLISLSL SHTNILMLDS ASLAGLHALR FLFMDGNCY Y KNPCRQALEV
 APGALLGLGN LTHLSLKYNN LTVVPRNLPS SLEYLLLSYN RIVKLAPEDL
 ANLTALRVLD VGGNCRRCDH APNPCMECPR HFPQLHPDTF SHLSRLEGLV
 LKDSSLSWLN ASWFRGLGNL RVLDLSENFL YKCITKTKAF QGLTQLRKLN
 LSFNYQKRVS FAHLSLAPSF GS

Purity > 95%

Applications SDS-PAGE; WB; ELISA; IP.

GENE INFORMATION

Gene Name TLR9 toll-like receptor 9 [Homo sapiens]

Official Symbol TLR9

Synonyms TLR9; toll-like receptor 9; CD289;

Gene ID 54106

mRNA Refseq NM_017442

Protein Refseq NP_059138

MIM 605474

UniProt ID Q9NR96

Chromosome Location 3p21.3

Pathway African trypanosomiasis, organism-specific biosystem; African trypanosomiasis,

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conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; IRS-mediated signalling, organism-specific biosystem;

Function

interleukin-1 receptor binding; receptor activity; siRNA binding;

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