

Recombinant Human TLR9 protein

Cat. No. TLR9-452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR9 was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
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	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	113.52 kDa
AA Sequence	MGFCRSALHPLSLLVQAIMLAMTLALGTLPAFLPCELQPHGLVNCNWLFLKSVPFHFS MAAPRGNVTSLSLSSNRI HHLHDSDFAHLP SLRHLNLKWNCPVGLSPMHFPCHM TIEPSTFLAVPTLEELNLSYNNIMTVPALPKSLISLSL SHTNILMLDSASLAGLHALRFL

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FMDGNCYYKNPCRQALEVAPGALLGLGNLTHLSLKYNNTVVPRNLPSSLEYL LLS
 YNRIVKLAPEDLANLTALRVLDVGGNCRRCDHAPNPCMECPRHFPQLHPDTFSHLS
 RLEGLVLKDSSLSWLN ASWFRGLGNLRVLDLSENFYKCYTKTKAFQGLTQLRKLN
 SFNYQKRVSAHLSLAPSGSLVALKELDMHGIF FRSLDETTLRPLARLPMLQTLRL
 QMNFINQAQLGIFRAFPGLRYVDLSNDRISGASELTATMGEADGGKVLWQP GDLA
 PAPVDTPSSEDFRPNCSTLNFTLDLSRNNLTVQPEMFAQLSHLQCLRLSHNCISQA
 VNGSQFLPLTGLQV LDLSHNKLDLYHEHSFTELPRLEALDSYNSQPFGMQGVGHN
 FSFVAHLRTLRLSLAHNNIHSQVSQQLCSTSL RALDFSGNALGHMWAEGDLYLHF
 FQGLSGLIWLDLSQNRHLHTLLPQTLRNLPKSLQVLRLRDNYLAFFKWWSLHF LPKLE
 VLDLAGNQLKALTNGSLPAGTRLRRLDVSCNSISFVAPGFFSKAKELRELNLSANALK
 TVDHSWFGPLAS ALQILDVSANPLHCACGAAFMDFLLEVQAAVPGLPSRVKCGSPG
 QLQGLSIFAQDLRLCLDEALSWDCFALSLLA VALGLGVPMMLHLCGWDLWYCFHLC
 LAWLPWRGRQSGRDEDALPYDAFVVFDKTQSAVADWVYNELRGQLEECRG RWA
 LRLCLEERDWLPGKTLFENLWASVYGSRKTLFVLAHTDRVSGLLRASFLLAQQRLL
 DRKDVVVLVILSPDG RRSRYVRLRQRLCRQSVLLWPHQPSGQRSFWAQLGMALTR
 DNHHFYNRNFCQGPTAE

Applications

Antibody Production;Functional Study: Recommended usage only, not validated yet;Compound Screening: Recommended usage only, not validated yet.

Notes

Heating may cause protein aggregation. Please do not heat this product before electrophoresis. Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION
Gene Name

TLR9 toll-like receptor 9 [Homo sapiens]

Official Symbol

TLR9

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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, 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;