

Recombinant Human TLR9 Protein, Alexa-647 labeled

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

SPECIFICATION

Product Overview	Recombinant Human TLR9 protein without tag was expressed in E. coli. Purified protein was labeled with alexa-647 in vitro.
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.
Conjugation/Label	Alexa-647
Molecular Mass	41.2kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSEF-TLPAFLPCELQPHGLVN CNWLFLKSVPHFSMAAPRGVNTSLSLSSNRIHHLHDSDFAHLPRLHLNLKWNCP

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VGLSPMHFPCHMTIEPSTFLAVPTLEELNLSYNNIMTVPALPKSLISLSLSHTNILMLD
 SASLAGLHALRFLFMDGNCYYKNPCRQALEVAPGALLGLGNLTHLSLKYNNLTVVPR
 NLPSSLEYLLLSYNRIVKLAPEDLANLTALRVLDVGGNCRRCDHAPNPCMECPRHFP
 QLHPDTFSHLRLEGLVLKDSSLSWLNASWFRGLGNLRVLDLSENFYKCYTKTKAF
 QGLTQLRKLNLSFNYQKRVSAHLSLAPSFSGS

Purity > 95%

Applications SDS-PAGE; WB; ELISA; IP

Concentration 1.0 mg/mL

GENE INFORMATION

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

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

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