

## Recombinant Human TLR9 Protein, Alexa-647 labeled

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

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b>  | Recombinant Human TLR9 protein without tag was expressed in E. coli. Purified protein was labeled with alexa-647 in vitro.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>       | 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. |
| <b>Conjugation/Label</b> | Alexa-647                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>    | 41.2kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>       | MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSEF-TLPAFLPCELQPHGLVN<br>CNWLFLLKSVPHFSMAAPRGVNTSLSLSSNRIHHLHDSDFAHLPRLHLNLKWNCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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VGLSPMHFPCHMTIEPSTFLAVPTLEELNLSYNNIMTVPALPKSLISLSLSHTNILMLD  
 SASLAGLHALRFLFMDGNCYYKNPCRQALEVAPGALLGLGNLTHLSLKYNNLTVVPR  
 NLPSSLEYLLLSYNRIVKLAPEDLANLTALRVLDVGGNCRRCDHAPNPCMECPRHFP  
 QLHPDTFSHLRLEGLVLKDSSLSWLNASWFRGLGNLRVLDLSENFYKCYTKTKAF  
 QGLTQLRKLNLSFNYQKRVSFAHLSLAPSFSGS

**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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