

Recombinant Rat Tlr4 Protein, 26-635aa, C-8×His tagged

Cat. No. TLR4-6084R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat TLR4 Protein (26-635aa) with C-8×His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	26-635aa
Description	Enables lipopolysaccharide binding activity and phosphatidylinositol 3-kinase binding activity. Involved in several processes, including detection of stimulus involved in sensory perception of pain; immune response-regulating signaling pathway; and response to steroid hormone. Located in cell surface and cytoplasm. Colocalizes with membrane raft. Used to study several diseases, including carotid stenosis; ileitis; neuropathy (multiple); obesity; and renal fibrosis. Biomarker of several diseases, including kidney failure (multiple); pancreatitis (multiple); perinatal necrotizing enterocolitis; pulpitis; and sciatic neuropathy. Human ortholog(s) of this gene implicated in several diseases, including allergic contact dermatitis (multiple); artery disease (multiple); autoimmune disease (multiple); eye disease (multiple); and lung disease (multiple). Orthologous to human TLR4 (toll like receptor 4).
Molecular Mass	The protein has a calculated MW of 71 kDa.
AA Sequence	NPCIEVLPNITYQCMDQNLSKIPHDIPYSTKNLDLSFNPLKILRSYSFTNFSQLQWLDL SRCEIETIEDKAWHGLNQLSTLVLTGNPIKSFSPGSFSGLTNLENLVAVETKMTSLEG

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FHIGQLISLKKLNVAHNLIHSFKLPEYFSNLTNLEHVDLSYNYIQTISVKDLQFLREN PQ
VNLSLDLSLNPIDSIQAQAFQGIRLHELTLRSNFNSSNVLMCLQNMTGLHVHRLILG
EFKNERNLESFDRSVMGLCNVSIDEFRLTYINHFSDDIYNLNCLANISAMSFTGVHIK
HIADVPRHFKWQSLSIIRCHLKPFKLSLPFLKSWTLTTNREDISFGQLALPSLRYLDL
SRNAMSFRGCCSYSDFGTNNLKYLDLSFNGVILMSANFMGLEELEYLDFQHSTLKK
VTEFSVFLSLEKLLYLDISYNTNTKIDFDGIFLGLISLNTLKMAGNSFKDNTLSNVFTNTT
NLTFDLDSKCQLEQISRGVFDTLYRLQLLNMSHNNLLFLDPSHYKQLYSLRTLDCSFN
RIETSKGILQHFPKSLAVFNLTNNSVACICEYQNFLQWVKDQKMFLVNVEQMKCASP
IDMKASLVLDFTNSTCYIYKTIISVSHHHHHHHH

Endotoxin <1 EU/μg by LAL

Purity >80% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.034 mg/mL by BCA

Storage Buffer Sterile PBS, pH 7.4.

GENE INFORMATION

Gene Name [Tlr4 toll-like receptor 4 \[Rattus norvegicus \(Norway rat\) \]](#)

Official Symbol [Tlr4](#)

Synonyms Tlr4; toll-like receptor 4; toll-like receptor 4; toll4; EC 3.2.2.6

Gene ID [29260](#)

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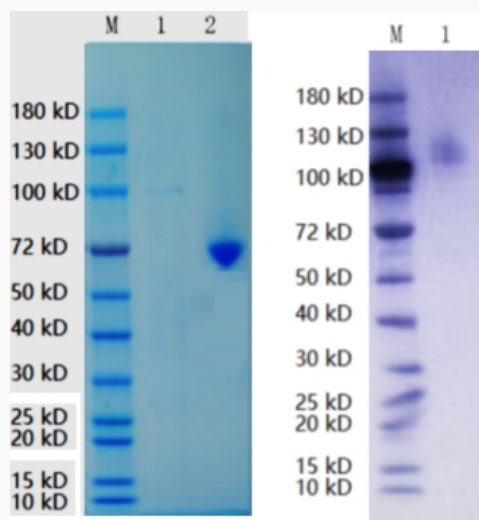
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mRNA Refseq [NM_019178](#)

Protein Refseq [NP_062051](#)

UniProt ID [G3V7D8](#)

Reducing 4%-20%
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
antibody) analysis
profiles of purified
TLR4.



1. TLR4
2. BSA

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