

## Recombinant Human TLR5

**Cat. No.** TLR5-30142TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human TLR5 with a proprietary tag; predicted mwt: 38.61 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	118 amino acids
<b>Description</b>	<p>This gene encodes a member of the toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.</p>
<b>Molecular Weight</b>	38.610kDa inclusive of tags
<b>Tissue specificity</b>	Highly expressed in ovary and in peripheral blood leukocytes, especially in monocytes, less in CD11c+ immature dendritic cells. Also detected in prostate and testis.

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<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	LPPGVFSHLTALRGLSLNSNRLTVLSHNDLPANLEILDISRNQLLAPNPDV FVSLSVLD ITHNKFICECELSTFINWLNHTNVTIAGPPADIYCVYPD SFGVSLFSLSTEGCDEEEV
<b>Sequence Similarities</b>	Belongs to the Toll-like receptor family. Contains 15 LRR (leucine-rich) repeats. Contains 1 TIR domain.

## GENE INFORMATION

<b>Gene Name</b>	TLR5 toll-like receptor 5 [ Homo sapiens ]
<b>Official Symbol</b>	TLR5
<b>Synonyms</b>	TLR5; toll-like receptor 5; FLJ10052; MGC126430; MGC126431; SLEB1; TIL3; Toll/interleukin 1 receptor like protein 3;
<b>Gene ID</b>	7100
<b>mRNA Refseq</b>	NM_003268
<b>Protein Refseq</b>	NP_003259
<b>MIM</b>	603031

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<b>Uniprot ID</b>	O60602
<b>Chromosome Location</b>	1q32.3-q42
<b>Pathway</b>	Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Legionellosis, organism-specific biosystem; Legionellosis, conserved biosystem; MyD88 cascade initiated on plasma membrane, organism-specific biosystem;
<b>Function</b>	interleukin-1 receptor binding; receptor activity;

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