Recombinant Human TLR5

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

SPECIFICATION

Product Overview	Recombinant fragment of Human TLR5 with a proprietary tag; predicted mwt: 38.61 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	118 amino acids
Description	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.
Molecular Weight	38.610kDa inclusive of tags
Tissue specificity	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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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LPPGVFSHLTALRGLSLNSNRLTVLSHNDLPANLEILDISRNQLLAPNPDVFVSLSVLD ITHNKFICECELSTFINWLNHTNVTIAGPPADIYCVYPDSFSGVSLFSLSTEGCDEEEV
Sequence Similarities	Belongs to the Toll-like receptor family.Contains 15 LRR (leucine-rich) repeats.Contains 1 TIR domain.

GENE INFORMATION

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

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Uniprot ID	O60602
Chromosome Location	1q32.3-q42
Pathway	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;
Function	interleukin-1 receptor binding; receptor activity;

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