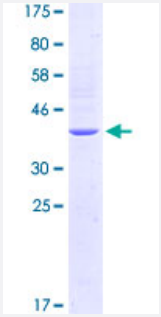
TLR5 (Human) Recombinant Protein (Q03)

Catalog # H00007100-Q03 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TLR5 partial ORF (NP_003259.2, 351 a.a. - 450 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LYSSNFYGLPKVAYIDLQKNHIAIIQDQTFKFLEKLQTLDLRDNALTTIHFIPSIPDIFLSGNKLVTLPKIN LTANLIHLSENRLENLDILYFLLRVPHL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TLR5

Entrez GeneID	7100
GeneBank Accession#	NM_003268
Protein Accession#	NP_003259.2
Gene Name	TLR5
Gene Alias	FLJ10052, MGC126430, MGC126431, SLEB1, TIL3
Gene Description	toll-like receptor 5
Omim ID	601744 603031 608556
Gene Ontology	Hyperlink
Gene Summary	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 product is expressed in myelomonocytic cells, and recognizes bacterial flagellin, a principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB and stimulates tumour necrosis factor-alpha production. [provided by RefSeq
Other Designations	OTTHUMP00000036039|Toll/interleukin-1 receptor-like protein 3

Pathway

- Pathogenic Escherichia coli infection - EHEC
- Toll-like receptor signaling pathway

Disease

- Arthritis
- Asthma
- Bacteriuria
- Bronchiolitis
- Bronchiolitis Obliterans
- Cardiovascular Diseases
- Chagas Cardiomyopathy
- Chorioamnionitis
- Chronic Disease
- Crohn Disease
- Cystic Fibrosis
- Cystitis
- Diabetes Mellitus
- Disease Susceptibility
- Duodenal Ulcer
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Helicobacter Infections
- HIV Infections
- Infant
- Inflammation
- Inflammatory Bowel Diseases
- Lupus Erythematosus

- Lymphoma
- Multiple Sclerosis
- Narcolepsy
- Obstetric Labor
- Pre-Eclampsia
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Purpura
- Pyelonephritis
- Respiratory Syncytial Virus Infections
- Sepsis
- Tobacco Use Disorder
- Typhoid Fever
- Urinary Tract Infections