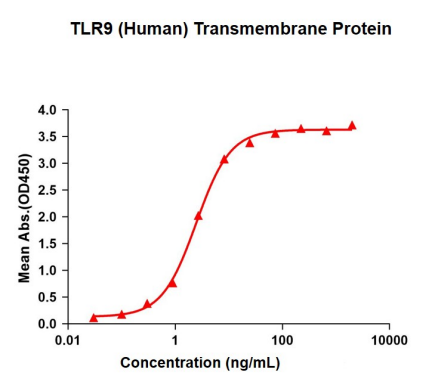
VLP/Nanodisc | Full-Length | HuPro®

TLR9 (Human) Recombinant Protein

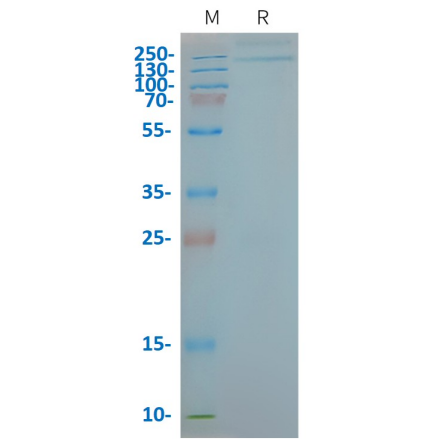
Catalog # P10876 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA plates were pre-coated with Flag Tag TLR9-Nanodisc (0.2 ug/well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with TLR9-Nanodisc is 2.467 ng/mL.



SDS-PAGE

Human TLR9-Nanodisc, Flag Tag on SDS-PAGE.

Specification

Product Description	Human TLR9 (Q9NR96, 1 a.a. - 1032 a.a.) full-length recombinant protein-Nanodisc.

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Sequence	MGFCRSALHPLSLLVQAIMLAMTLALGTLPAFLPCELQPHGLVNCNWLFLKSVPHFSMAAPRGN VTSLSLSSNRIHHLHDSDFAHLPSLRHLNLKWNCPPVGLSPMHFPCHMTIEPSTFLAVPTLEELNL SYNNIMTVPALPKSLISLSLSHTNILMLDSASLAGLHALRFLFMDGNCYYKNPCRQALEVAPGALLG LGNLTHLSLKYNNLTVVPRNLPSSLEYLLLSYNRIVKLAPEDLANLTALRVLDVGGNCRRCDHAPN PCMECPRHFPQLHPDTFSHLSRLEGLVLKDSSLSWLNASWFRGLGNLRVLDLSENFLYKCITKTK AFQGLTQLRKLNLSFNYQKRVSFAHLSLAPSFGSLVALKELDMHGIFFRSLDETTLRPLARLPMLQ TLRLQMNFINQAQLGIFRAFPGLRYVDLSDNRISGASELTATMGEADGGEKVWLQPGDLAPAPVD TPSSEDFRPNCSTLNFTLDLSRNNLVTVQPEMFAQLSHLQCLRLSHNCISQAVNGSQFLPLTGLQ VLDLSHNKLDLYHEHSFTELPRLEALDLSYNSQPFGMQGVGHNFSFVAHLRTLRHLSLAHNNIHS QVSQQLCSTSLRALDFSGNALGHMWAEGDLYLHFFQGLSGLIWLDLSQNRLHTLLPQTLRNLPKS LQVLRLRDNYLAFFKWWSLHFLPKLEVLDLAGNQLKALTNGSLPAGTRLRRLDVSCNSISFVAPG FFSKAKELRELNLSANALKTVDHSWFGPLASALQILDVSANPLHCACGAAFMDFLLEVQAAVPG LPSRVKCGSPGQLQGLSIFAQDLRLCLDEALSWDCFALSLLAVALGLGVPMLHHLCGWDLWYC FHLCLAWLPWRGRQSGRDEDALPYDAFVVFDKTQSAVADWVYNELRGQLEECRGRWALRLCL EERDWLPGKTLFENLWASVYGSRKTLFVLAHTDRVSGLLRASFLLAQQRLLEDRKDVVVLVILSP DGRRSRYVRLRQRLCRQSVLLWPHQPSGQRSFWAQLGMALTRDNHHFYNRNFCQGPTAE
Host	Human
Theoretical MW (kDa)	115.9
Reactivity	Human
Form	Lyophilized
Conjugation	Unconjugated
Preparation Method	Mammalian cell (HEK293) expression system
Recommend Usage	ELISA SDS-PAGE
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 (5% trehalose).
Storage Instruction	Store at -20°C to -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay

  ELISA plates were pre-coated with Flag Tag TLR9-Nanodisc (0.2 ug/well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with TLR9-Nanodisc is 2.467 ng/mL.

- SDS-PAGE

  Human TLR9-Nanodisc, Flag Tag on SDS-PAGE.

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Gene Info — TLR9

Entrez GeneID	54106
Protein Accession#	Q9NR96
Gene Name	TLR9
Gene Alias	CD289
Gene Description	toll-like receptor 9
Omim ID	605474
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 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. [provided by RefSeq
Other Designations	-

Pathway

- Toll-like receptor signaling pathway

Disease

- Adenocarcinoma
- Anemia
- Arthritis
- Arthropathy
- Aspergillosis

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- Asthma
- Atherosclerosis
- Behcet Syndrome
- Birth Weight
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Bronchiolitis Obliterans
- Calcinosis
- Cardiovascular Diseases
- Chagas Cardiomyopathy
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Colitis
- Common Variable Immunodeficiency
- Connective Tissue Diseases
- Coronary Artery Disease
- Crohn Disease
- Cytomegalovirus Infections
- Dermatitis
- Diabetes Mellitus
- Disease Progression
- Eczema
- Edema
- Esophageal Neoplasms

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- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Graves Ophthalmopathy
- Helicobacter Infections
- Hematologic Neoplasms
- Hemochromatosis
- Hemorrhagic Fever
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Hypersensitivity
- Immunodeficiency with hyper-IgM
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Leukemia
- Liver Cirrhosis
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma

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- Malaria
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Mycobacterium Infections
- Mycoses
- Obstetric Labor
- Parasitemia
- Pneumonia
- Pouchitis
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Puerperal Disorders
- Pulmonary Disease
- Recurrence
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Rhinitis
- Sarcoidosis
- Schizophrenia

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- Sepsis
- Skin Diseases
- Stomach Neoplasms
- Streptococcal Infections
- Tuberculosis
- Virus Diseases

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