Recombinant Human TLR4/CD284 Protein



Catalog No.: RP02127LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 7099 000206

Tags C-His

Synonyms

TLR4;Toll-like receptor 4; hToll; CD284

Product Information

Source Purification

Baculovirus-Insect ≥ 87 % as

Cells determined by SDSPAGE.

Calculated MW Observed MW

68 kda 70.5 kDa

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Formulation

 $0.22~\mu m$ filtered solution of 20mM PB, 500mM NaCl, pH 6.0, 10% glycerol.

Reconstitution

Background

TLR4, also known as TLR-4, 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. TLR4 is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. TLR 4 has also been designated as CD284 (cluster of differentiation 284). It has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. TLR4 Cooperates with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). It acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. It is also involved in LPS-independent inflammatory responses triggered by Ni(2+).

Basic Information

Description

Recombinant Human TLR4/CD284 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Lys631) of human TLR4/CD284 (Accession $\#NP_612564.1$) fused with a $6\times His$ tag at the C-terminus.

Bio-Activity

1.lmmobilized Recombinant Human TLR4 / CD284 Protein (His Tag)at $1~\mu g/mL$ (100 $\mu l/well)$ on His Tag Antibody, Mouse MAb precoated (5 $\mu g/mL$, 100 $\mu l/well$) can bind Anti-TLR4 Antibody, the EC50 is 4-15 ng/mL (QC tested).2.Immobilized Anti-TLR4 Antibody at 2 $\mu g/mL$ (100 $\mu l/well$) can bind Recombinant Human TLR4 / CD284 Protein (His Tag) , the EC50 is 4-15 ng/mL (Routinely tested).

Storage

Store at -70° C.This product is stable at $\leq -70^{\circ}$ C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

a	400-999-6126
×	cn.market@abclonal.com.cn
$\overline{oldsymbol{\circ}}$	www.abclonal.com.cn