Recombinant Human TLR4/CD284 Protein

Catalog No.: RP02127

Sequence Information

Species
Human

Gene ID
7099

Swiss Prot
O00206-1

Tags
C-His

Synonyms
TLR4, ARMD10, CD284, TLR-4, TOLL, toll-like receptor 4,ARMD10, CD284,TLR-4,TOLL

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
70.5 kDa

Observed MW
68 kda

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM PB, 500mM NaCl, pH 6.0, 10% glycerol.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

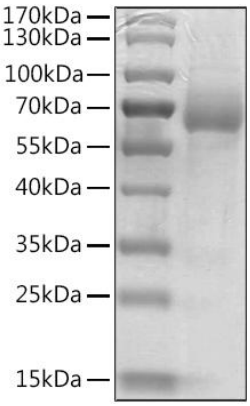
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human TLR4/CD284 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.