

Catalog No.: RP02127LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	7099	O00206

C-His

TLR4;Toll-like receptor 4; hToll; CD284

Source	Purification
Baculovirus-Insect Cells	≥ 87 % as determined by SDS-PAGE.

Calculated MW	Observed MW
68 kda	70.5 kDa

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

0.22 μ m filtered solution of 20mM PB, 500mM NaCl, pH 6.0, 10% glycerol.

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+).

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 6xHis tag at the C-terminus.

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

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ 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.

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