



TLR4 (Toll Like Receptor 4, Toll-like Receptor 4 Precursor, TLR 4, CD284, CD284 Antigen, Homolog of Drosophila Toll, hToll, Toll (Drosophila) Homolog, TOLL, Toll Endotoxin Hyporesponsiveness)

Catalog number

T8050-33

Supplier

United States Biological

The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules (1). The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). Among this family of receptors, TLR2 and TLR4 have been most studied. These studies have suggested that TLR2 and TLR4 may serve as potential main mediators of LPS signaling (4,5). The TLR4 cDNA codes for a protein consisting of 799 amino acids with approximate molecular weight of 88kD (6).

Applications

Suitable for use in Western Blot and Immunoprecipitation. Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Positive Control

Mouse intestine cell lysate

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%), aliquot and store at -20°C. Aliquots are stable for at least 3 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in PBS, 0.2% gelatin, 0.05% sodium azide.

Purity

Purified by immunoaffinity chromatography.

Specificity

observed size: ~90kD (native) or 80kD (partial recombinant mouse TLR4--extracellular portion plus His-tag) Species Crossreactivity: Human, Mouse.

Product Type



Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

IP WB

Crossreactivity

Hu Mo

Storage

-20°C