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TLR7

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW:121kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human TLR7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

s

Synonym:

TLR7

Catalog #:A0991

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:51284

Isotype: IgG

Swiss Prot:Q9NYK1

Purity: Affinity purification

For research use only.

Background:

Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in Drosophila, play a pivotal role in innate immune responses (1-3). TLRs recognize conserved motifs found in various pathogens and mediate defense responses. Triggering of the TLR pathway leads to the activation of NF-B and subsequent regulation of immune and inflammatory genes. The TLRs and members of the IL-1 receptor family share a conserved stretch of approximately 200 amino acids known as the TIR domain. Upon activation, TLRs associate with a number of cytoplasmic adaptor proteins containing TIR domains including MyD88 (myeloid differentiation factor), MAL/TIRAP (MyD88-adaptor-like/TIR-associated protein), TRIF (Toll-receptor-associated activator of interferon), and TRAM (Toll-receptor-associated molecule). This association leads to the recruitment and activation of IRAK1 and IRAK4, which form a complex with TRAF6 to activate TAK1 and IKK. Activation of IKK leads to the degradation of IB that normally maintains NF-B inactivity by sequestering it in the cytoplasm.TLR7, 8 and 9 form a group of structurally related TLR family members that are are localized to intracellular endosomes (4-6). TLR7 shows highest expression in lung, placenta, and spleen (4). TLR7 mediates responses to a class of synthetic compounds, including imidazoquinolines, guanosine-based drugs that induce anti-viral responses (7). Naturally, TLR7 responds to ssRNA viruses to activate NF-B and trigger IFN production (8-10).

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