TLR4 Mouse Monoclonal Antibody

E8RT1666

Catalog Number:E8RT1666

Product Type: Mouse monoclonal IgG1, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB

Molecular Wt: Predicted band size: 96 kDa

Description: Toll-like receptor 4 (TLR4), also designated as CD284 (cluster of differentiation 284), is a key activator of the innate immune response and plays a central role in the fight against bacterial infections. TLR4 is a transmembrane protein of approximately 95 kDa that is encoded by the TLR4 gene. TLR4 belongs to the toll-like receptor family which is representative of the pattern recognition receptors (PRR), so named for their ability to recognize evolutionarily conserved components of microorganisms (bacteria, viruses, fungi and parasites) called pathogen-associated molecular patterns (PAMPs). The recognition of a PAMP by a PRR triggers rapid activation of the innate immunity essential to fight infectious diseases.

Immunogen: Recombinant protein within mouse TLR4.

Positive control: Jurkat cell lysate, THP-1 cell lysate, RAW264.7 cell lysate, Neuro-2a cell lysate.

Subcellular location: Cell membrane, Early endosome, Cell projection, ruffle.

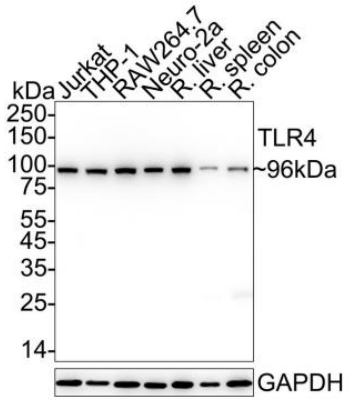
Database links: SwissProt: O00206 Human | Q9QUK6 Mouse | Q9QX05 Rat

Recommended Dilutions:WB 1:1,000

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage I nstruction: Store at +4℃

Purity: Protein A affinity purified.



Western blot analysis of TLR4 on different lysates with Mouse anti-TLR4 antibody at 1/1,000 dilution. Lane 1: Jurkat cell lysate (30 µg/Lane). Lane 2: THP-1 cell lysate (30 µg/Lane). Lane 3: RAW264.7 cell lysate (30 µg/Lane). Lane 4: Neuro-2a cell lysate (30 µg/Lane). Lane 5: Rat liver tissue lysate (40 µg/Lane). Lane 6: Rat spleen tissue lysate (40 µg/Lane). Lane 7: Rat colon tissue lysate (40 µg/Lane). Predicted band size: 96 kDa. Observed band size: 96 kDa. Exposure time: 25 seconds; ECL; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Mouse IgG-HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.