

## Basic Information

|                           |   |
|---------------------------|---|
| <b>Product Name</b>       | Anti-TLR4 Antibody  |
| <b>Gene Name</b>          | TLR4  |
| <b>Source</b>             | Rabbit  |
| <b>Clonality</b>          | Polyclonal  |
| <b>Isotype</b>            | IgG   |
| <b>Species Reactivity</b> | mouse   |
| <b>Tested Application</b> | WB, ELISA   |
| <b>Contents</b>           | 500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.   |
| <b>Immunogen</b>          | E.coli-derived mouse Tlr4 recombinant protein (Position: N26-E827).                   |
| <b>Concentration</b>      | 500 ug/ml   |
| <b>Purification</b>       | Immunogen affinity purified.  |
| <b>Observed MW</b>        | 96 kDa  |
| <b>Dilution Ratios</b>    | Western blot (WB): 1:500-2000<br>Enzyme linked immunosorbent assay (ELISA):1:100-1000 |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Toll-like receptor 4 is a protein that in humans is encoded by the TLR4 gene. This gene belongs to the evolutionarily-conserved Toll-like receptor family, whose members are type-1 transmembrane proteins that are involved in innate immunity. Toll-like receptors are characterized by an extracellular leucine-rich repeat domain that functions in ligand recognition and an intracellular toll/interleukin-1 receptor-like domain that is crucial for signal transduction. The receptor encoded by this gene mediates the innate immune response to bacterial lipopolysaccharide, a major component of the outer membrane of Gram-negative bacteria, through synthesis of pro-inflammatory cytokines and chemokines. In addition, this protein can recognize other pathogens from Gram-negative and Gram-positive bacteria as well as viral components. Mice deficient in this gene display a number of immune response-related phenotypes including hyporesponsiveness to bacterial lipopolysaccharide and increased levels of respiratory syncytial virus compared to controls.

## Reference

Anti-TLR4 Antibody被引用在12文献中。

## Selected Validation Data

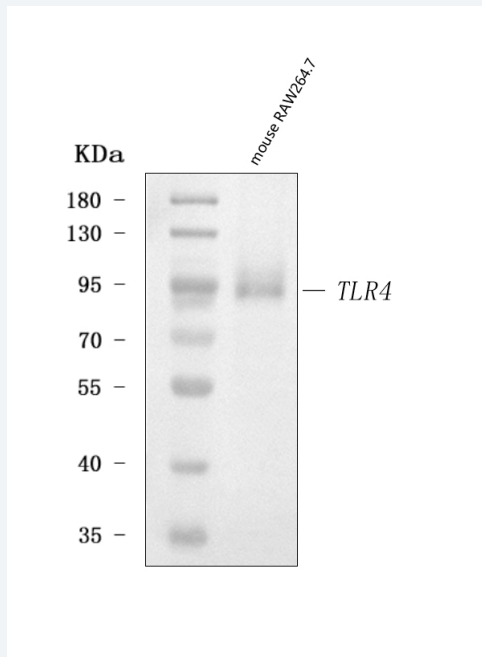


Figure 1. Western blot analysis of TLR4 using anti-TLR4 antibody (A00017-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TLR4 antigen affinity purified polyclonal antibody (A00017-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TLR4 at approximately 96 kDa. The expected band size for TLR4 is at 96 kDa.