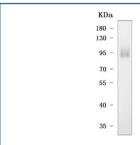


# TIr4 Antibody / Toll like receptor 4 (RQ7411)

Catalog No.	Formulation	Size
RQ7411	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

### **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9QUK6
Applications	Western Blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Tlr4 antibody is available for research use only.



Western blot testing of mouse RAW264.7 cell lysate with Tlr4 antibody. Expected molecular weight: 96-135 kDa depending on glycosylation level.

# **Description**

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.

### **Application Notes**

Optimal dilution of the TIr4 antibody should be determined by the researcher.

### **Immunogen**

E. coli-derived recombinant mouse protein (amino acids N26-E827) was used as the immunogen for the Tlr4 antibody.

#### **Storage**

After reconstitution, the Tlr4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.