

## Anti-TLR4 Polyclonal Antibody

**CATALOG NO:** 3253-30T 30 µg (Trial size)  
3253-100 100 µg

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide corresponding to residues surrounding amino acids 819 of rat TLR4 (ID# BV-967-1)

**SPECIES REACTIVITY:** Rat

### FORMULATION:

0.5 mg/ml affinity purified rabbit anti-TLR4 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 5 mM EDTA, 0.5% BSA, 0.01% thimerosal.

### STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### DESCRIPTION:

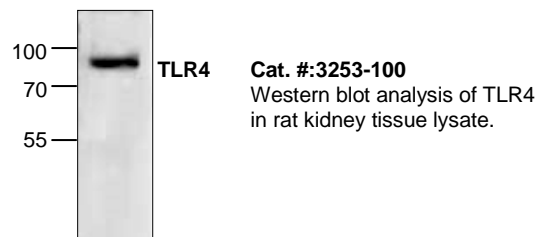
TLR4 (Toll-like receptor 4) is a mammalian homologue of the *Drosophila* toll protein. The human TLR4 is a type-1 transmembrane protein containing 799 amino acid residues. The extracellular domain has leucine-rich repeats and the intracellular domain is similar to that of IL-1 receptor. TLR4 is a receptor for lipopolysaccharide (LPS). In mice that are genetically tolerant to endotoxin, mutations have been identified in the intracellular domain of TLR4 that abolish LPS responsiveness. TLR4 uses a mechanism similar to that of the IL-1 receptor for signal transduction that leads to activation of NF-κB.

### SPECIFICITY:

The antibody recognizes ~92 kDa TLR4 of rat origin. Reactivity to other species has not been tested.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3253BP-50) is available separately.



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