

## TLR9 (Toll-like receptor 9) Polyclonal Antibody

**CATALOG #:** 3559-100

**AMOUNT:** 100 µl

**LOT #:** \_\_\_\_\_

### FORMULATION:

100 µl purified rabbit anti-TLR9 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

**SPECIES REACTIVITY:** mouse

### STORAGE CONDITIONS:

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

### BACKGROUND:

The Toll-like receptor (TLR) family of proteins are characterized by a highly conserved Toll homology (TH) domain, which is essential for Toll-induced signal transduction. TLR1, as well as the other TLR family members, are type I transmembrane receptors that characteristically contain an extracellular domain consisting of several leucine-rich regions along with a single cytoplasmic Toll/IL-1R-like domain. TLR2 and TLR4 are activated in response to lipopolysaccharide (LPS) stimulation, which results in the activation and translocation of NFκB and suggests that these receptors are involved in mediating inflammatory responses. TLR6 is highly homologous to TLR1, and like other members of TLR family, it induces NFκB signaling upon activation. TLR8 gene contains three exons, two of which have coding function. TLR9 has been suggested as a receptor for unmethylated CpG dinucleotides in the bacterial DNA. TLR9 is highly expressed in spleen.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (1:200-1000 dilution) and FACS analysis. Mouse intestinal lysate can be used as a positive control and a 113 kDa band is detected in Western blotting. For FACS analysis, we recommend 1-4 µl per million cells. However, the optimal conditions should be determined individually.

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