



PRODUCT DATA SHEET

Product: Toll-Like Receptor 9 (TLR9) (CT) polyclonal

Cat. No.: PC-590 (100 µg)

Background:

Toll-like receptors (TRLs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in *Drosophila*. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. TLR9 forms a subfamily with TLR7 and TLR8 that recognize viral RNA and CpG DNA sequences and are localized in intracellular acidic compartments such as the phagolysosome. Unlike other TLRs which act through adaptor molecules such as TOLLIP, TIRAP, TRIF, and MyD88 to activate various kinases and transcription factors to respond to potential infection, TLR9 is strictly dependent on MyD88.

Molecular Weight:

115.8 kD kDa

Species Reactivity:

Human and Mouse

Host:

Rabbit

Isotype:

IgG

Positive Control:

Mouse spleen tissue lysate. Located in membrane, and highly expressed in spleen, lymph node, tonsil, and peripheral blood leukocytes, especially in plasmacytoid pre-dendritic cells. Levels are much lower in monocytes and CD11c+ immature dendritic cells. Also detected in lung and liver.

Immunogen:

Rabbit polyclonal TLR9 antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human TLR9.

Format:

Antigen Immunoaffinity purified. Provided as solution in a phosphate buffered saline with 0.02% sodium azide.

Storage and Stability:

Store at -20°C. Aliquot to avoid repeat freeze/thaw cycles.

Applications and Suggested Dilutions:

- Western blot: use at 1-2 µg/mL
- Immunocytochemistry

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.