



PRODUCT DATA SHEET

Product: Toll-Like Receptor 5 (TLR5) (IN) polyclonal

Cat. No.: PC-585 (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. The TLRs act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors so the organism can respond to potential infection. TLR5 recognizes flagellin from both Gram-positive and Gram-negative bacteria and will cause the activation of NF- κ B, leading to the activation of TNF- α and other cytokines. A common TLR5 stop codon polymorphism that disrupts TLR5 signaling is associated with susceptibility to Legionnaires' disease and demonstrates the importance of TLR5 in the innate immune response.

Molecular Weight:

97.8 kD kDa

Species Reactivity:

Human, Rat, and Mouse

Host:

Rabbit

Isotype:

IgG

Positive Control:

Found in the membrane, TLR5 is highly expressed in ovary and in peripheral blood leukocytes, especially in monocytes, less in CD11c+ immature dendritic cells. Also detected in prostate and testis.

Immunogen:

Rabbit polyclonal TLR5 antibody was raised against a peptide corresponding to 16 amino acids near the center of human TLR5.

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

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.