

Product datasheet for **AP05241PU-N**

TLR9 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 0.5-2 µg/ml. Positive Control: Jurkat Cell Lysate. Located in the 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 (6). Immunohistochemistry on Paraffin Sections.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide corresponding to 15 amino acids near the center of human TLR9
Specificity:	This antibody detects TLR9.
Formulation:	Phosphate buffered saline with 0.02% Sodium Azide State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Antigen Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	116 kDa
Gene Name:	toll like receptor 9
Database Link:	Entrez Gene 54106 Human Q9NR96



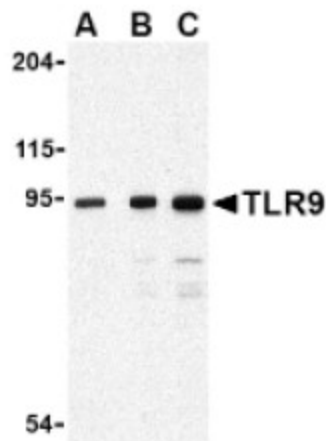
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Background:

Toll-like receptors (TLRs) 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 (1,2). TLR9 forms a subfamily along with TLR7 and TLR8 that recognize viral RNA and CpG DNA sequences (3) and are localized in intracellular acidic compartments such as the phagolysosome (4). 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 (5), TLR9 is strictly dependent on MyD88 (3).

Synonyms:

Toll-like receptor 9, UNQ5798/PRO19605

Product images:

Western blot analysis of TLR9 in Jurkat cell lysate with TLR9 antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.