SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-TLR9 antibody

Catalog Number: SL23640R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	TLR9
Immunogen:	KLH conjugated synthetic peptide derived from human TLR9: 401-500/1032
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Predicted MW.:	113kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is preferentially expressed in immune cell rich tissues, such as spleen, lymph node, bone marrow and peripheral blood leukocytes. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response. [provided by RefSeq, Jul 2008] **Function:** Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR9 is a

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	nucleotide-sensing TLR which is activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Controls lymphocyte response to Helicobacter infection. **Subunit:** Interacts with MYD88 via their respective TIR domains. Interacts with CNPY3. Interacts (via transmembrane domain) with UNC93B1. Interacts with BTK. **Subcellular Location:** Endoplasmic reticulum membrane; Single-pass type I membrane protein. Endosome. Lysosome. Cytoplasmic vesicle, phagosome. Note=Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist. **Tissue Specificity:** 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. **Similarity:** Belongs to the Toll-like receptor family. Contains 26 LRR (leucine-rich) repeats. Contains 1 TIR domain. **Database links:** **Entrez Gene:** 54106 Human **Entrez Gene:** 81897 Mouse **Entrez Gene:** 338457 Rat Omim: 605474 Human **SwissProt:** Q9NR96 Human **SwissProt:** Q9EQU3 Mouse **Unigene:** 87968 Human **Unigene:** 44889 Mouse **Unigene:** 92495 Rat

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[VALIDATION IMAGES]

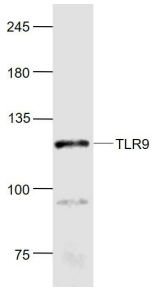


Figure 1. Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti- TLR9 (SL23640R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 113 kD Observed band size: 120 kD

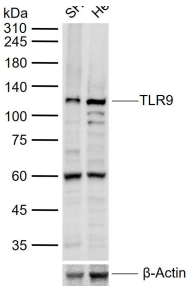


Figure 2. Sample: Lane 1: Human SH-SY5Y cell lysates Lane 2: Human HeLa cell lysates Primary: Anti-TLR9 (SL23640R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 113 kDa Observed band size: 120 kDa

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