

TLR9 Antibody

Rabbit Polyclonal Antibody Catalog # ALS14418

Specification

TLR9 Antibody - Product Information

Application IHC, WB
Primary Accession O9NR96
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 116kDa KDa

TLR9 Antibody - Additional Information

Gene ID 54106

Other Names

Toll-like receptor 9, CD289, TLR9

Target/Specificity

Human TLR9. Predicted cross-reactivity based on amino acid sequence homology: bovine (84%), cat (85%), dogs (83%), pig (84%), monkey (95%).

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

TLR9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TLR9 Antibody - Protein Information

Name TLR9

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 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 (PubMed:11564765, PubMed:17932028). Controls lymphocyte response to Helicobacter infection (By similarity). Upon CpG stimulation, induces B-cell proliferation, activation, survival and antibody production (PubMed:23857366).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9EQU3}; Single-pass type I



membrane protein {ECO:0000250|UniProtKB:Q9EQU3}. Endosome {ECO:0000250|UniProtKB:Q9EQU3}. Lysosome {ECO:0000250|UniProtKB:Q9EQU3}. Cytoplasmic vesicle, phagosome {ECO:0000250|UniProtKB:Q9EQU3}. Note=Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist. Exit from the ER requires UNC93B1. Endolysosomal localization is required for proteolytic cleavage and subsequent activation. Intracellular localization of the active receptor may prevent from responding to self nucleic acid. {ECO:0000250|UniProtKB:Q9EQU3}

Tissue Location

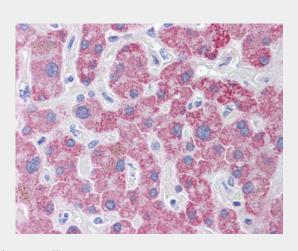
Highly expressed in spleen, lymph node, tonsil and peripheral blood leukocytes, especially in plasmacytoid pre-dendritic cells. Levels are much lower in monocytes and CD11c+ immature dendritic cells. Also detected in lung and liver

TLR9 Antibody - Protocols

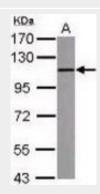
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TLR9 Antibody - Images



Anti-TLR9 antibody IHC of human liver.





Sample (30 ug of whole cell lysate) A: THP-1. 7.5% SDS PAGE. TLR9 antibody diluted at 1:1000.

TLR9 Antibody - Background

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TLR9 Antibody - References

Du X.,et al.Eur. Cytokine Netw. 11:362-371(2000). Chuang T.-H.,et al.Eur. Cytokine Netw. 11:372-378(2000). Hemmi H.,et al.Nature 408:740-745(2000). Liu Z.,et al.Submitted (SEP-2007) to the EMBL/GenBank/DDBJ databases. Nakajima T.,et al.Immunogenetics 60:727-735(2008).