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TLR1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11490

Specification

TLR1 Antibody (N-Terminus) - Product Information

Application	**IF, IHC**
Primary Accession	Q15399
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**90kDa KDa**

TLR1 Antibody (N-Terminus) - Additional Information

Gene ID 7096

Other Names
Toll-like receptor 1, Toll/interleukin-1 receptor-like protein, TIL, CD281, TLR1, KIAA0012

Target/Specificity
peptide corresponding to 16 amino acids near the amino terminus of human TLR1

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
TLR1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

TLR1 Antibody (N-Terminus) - Protein Information

Name TLR1

Synonyms KIAA0012

Function
Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides (PubMed:21078852). Forms the activation cluster TLR2:TLR1:CD14 in response to triacylated lipopeptides, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway (PubMed:16880211). Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q9EPQ1}; Single-pass type I membrane protein. Membrane raft. Golgi apparatus. Note=Does not reside in lipid rafts before stimulation but accumulates increasingly in the raft upon the presence of the microbial ligand. In response to triacylated lipoproteins, TLR2:TLR1 heterodimers are recruited in lipid rafts, this recruitment determine the intracellular targeting to the Golgi apparatus.

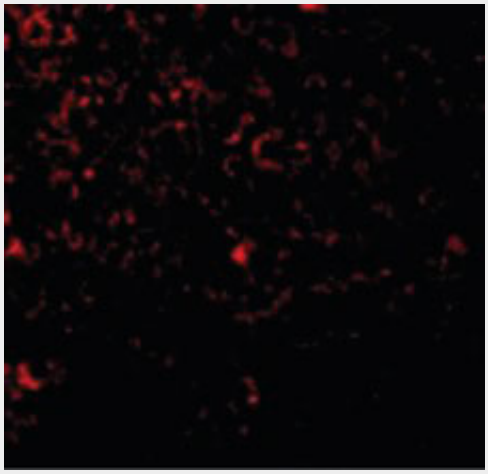
Tissue Location
Ubiquitous. Highly expressed in spleen, ovary, peripheral blood leukocytes, thymus and small intestine

TLR1 Antibody (N-Terminus) - 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

TLR1 Antibody (N-Terminus) - Images



Immunofluorescence of TLR1 in Mouse Spleen cells with TLR1 antibody at 20 ug/ml.

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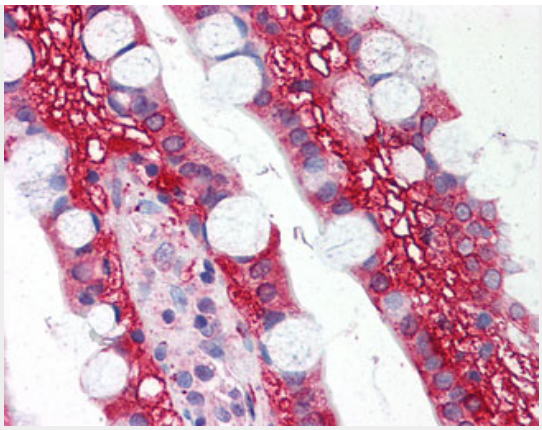

Anti-TLR1 antibody IHC of human small intestine.

TLR1 Antibody (N-Terminus) - Background

Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity).

TLR1 Antibody (N-Terminus) - References

Rock F.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:588-593(1998).
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
Georgel P.,et al.PLoS ONE 4:E7803-E7803(2009).
Nomura N.,et al.DNA Res. 1:27-35(1994).
Wiemann S.,et al.Genome Res. 11:422-435(2001).