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TLR5 Antibody (aa300-350)
Rabbit Polyclonal Antibody
Catalog # ALS14581

Specification

TLR5 Antibody (aa300-350) - Product Information

Application	**WB, IHC**
Primary Accession	O60602
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**98kDa KDa**

TLR5 Antibody (aa300-350) - Additional Information

Gene ID 7100

Other Names
Toll-like receptor 5, Toll/interleukin-1 receptor-like protein 3, TLR5, TIL3

Target/Specificity
KLH-conjugated synthetic peptide corresponding to a portion of human TLR5 found between amino acids 300-350. It will cross-react with mouse and rat TLR5.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
TLR5 Antibody (aa300-350) is for research use only and not for use in diagnostic or therapeutic procedures.

TLR5 Antibody (aa300-350) - Protein Information

Name TLR5

Synonyms TIL3

Function
Pattern recognition receptor (PRR) located on the cell surface that participates in the activation of innate immunity and inflammatory response (PubMed:11323673, PubMed:18490781). Recognizes small molecular motifs named pathogen-associated molecular pattern (PAMPs) expressed by pathogens and microbe-associated molecular patterns (MAMPs) usually expressed by resident microbiota (PubMed:29934223). Upon ligand binding such as bacterial flagellins, recruits intracellular adapter proteins MYD88 and TRIF leading to NF- kappa-B activation, cytokine secretion and induction of the inflammatory response (PubMed:<a

href="http://www.uniprot.org/citations/20855887" target="_blank">20855887, PubMed:11489966). Plays thereby an important role in the relationship between the intestinal epithelium and enteric microbes and contributes to the gut microbiota composition throughout life (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein

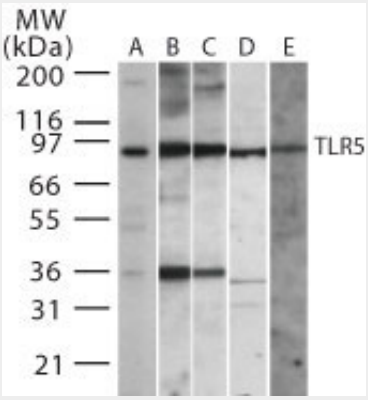
Tissue Location
Highly expressed on the basolateral surface of intestinal epithelia (PubMed:11489966). Expressed also in other cells such as lung epithelial cells (PubMed:11489966, PubMed:18490781)

TLR5 Antibody (aa300-350) - Protocols

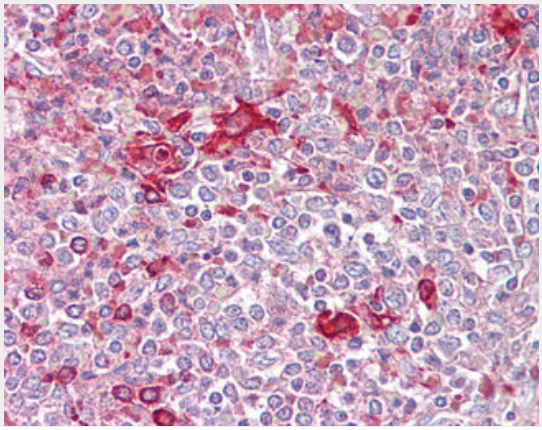
Provided below are standard protocols that you may find useful for product applications.

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

TLR5 Antibody (aa300-350) - Images



Western blot of TLR5 in (A) Ramos, (B) Raw, (C) mouse spleen, (D) mouse lung and (E) rat lung...



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Anti-TLR5 antibody IHC of human spleen.

TLR5 Antibody (aa300-350) - Background

Participates in the innate immune response to microbial agents. Mediates detection of bacterial flagellins. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

TLR5 Antibody (aa300-350) - References

Chaudhary P.M.,et al.Blood 91:4020-4027(1998).
Seya T.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
Wlasiuk G.,et al.Mol. Biol. Evol. 26:937-949(2009).
Georgel P.,et al.PLoS ONE 4:E7803-E7803(2009).