

TLR5 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10407**Specification**

TLR5 Antibody - Product Information

Application	WB
Primary Accession	O9JLF7
Other Accession	NP_058624
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	97627

TLR5 Antibody - Additional Information**Gene ID** 53791

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been determined. The antibody recognizes ~97 kDa TLR5 in sample from human, mouse and rat origins. Reactivity to other species has not been tested. Blocking peptide is available separately.
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Other Names

TLR5 , Anti-TLR5 , FLJ10052 , MGC126430 , MGC126431 , TLR 5

Target/Specificity

TLR5

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-TLR5 polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

TLR5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TLR5 Antibody - Protein Information

Name Tlr5

Function

Pattern recognition receptor (PRR) located on the cell surface that participates in the activation of innate immunity and inflammatory response. Recognizes small molecular motifs named pathogen-associated molecular pattern (PAMPs) expressed by pathogens and microbe-associated molecular patterns (MAMPs) usually expressed by resident microbiota. 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. Plays thereby an important role in the relationship between the intestinal epithelium and enteric microbes and contributes to the gut microbiota composition throughout life.

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

Highly expressed in liver (PubMed:30089902). Detected in lung and at very low levels in most other tissues

TLR5 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 Cytometry](#)
- [Cell Culture](#)

TLR5 Antibody - Images**TLR5 Antibody - Background**

The Toll-like receptor (TLR) family of proteins are characterized by a highly conserved Toll homology (TH) domain, which is essential for Toll-induced signal transduction. TLR1, as well as the other TLR family members, are type I transmembrane receptors that characteristically contain an extracellular domain consisting of several leucine-rich regions along with a single cytoplasmic Toll/IL-1R-like domain. TLR2 and TLR4 are activated in response to lipopolysaccharide (LPS) stimulation, which results in the activation and translocation of NFkB and suggests that these receptors are involved in mediating inflammatory responses. TLR6 is highly homologous to TLR1, and like other members of TLR family, it induces NFkB signaling upon activation. Expression of TLR receptors is highest in peripheral blood leukocytes, macrophages, and monocytes.