

Rabbit TLR5 Polyclonal Antibody | anti-TLR5 antibody

Phospho-TLR5 (Tyr798) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329844	Rabbit	Human, Mouse Predicted Reactivity: Pig (88%), Rabbit (88%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TLR5; Polyclonal Antibody; Phospho-TLR5 (Tyr798) Antibody; FLJ10052; MGC126430; MGC126431; SLEB1; TIL 3; TIL3; TLR 5; Tlr5; TLR5_HUMAN; Toll like receptor 5; Toll like receptor 5 precursor; Toll-like receptor 5; Toll/interleukin 1 receptor like protein 3; Toll/interleukin-1 receptor-like protein 3; anti-TLR5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (88%), Rabbit (88%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-TLR5 (Tyr798) Antibody detects endogenous levels of TLR5 only when phosphorylated at Tyr798. Tissue Specificity: Highly expressed on the basolateral surface of intestinal epithelia. Expressed also in other cells such as lung epithelial cells.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-TLR5 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TLR5 around the phosphorylation site of Tyr798.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Ser-805 by PKD/PRKD1; phosphorylation induces the production of inflammatory cytokines. Phosphorylated at Tyr-798 upon flagellin binding; required for signaling.
Subunit Structure	Homodimer. Interacts with MYD88 (via TIR domain). Interacts with TICAM1 (via TIR domain). Interacts with UNC93B1; this interaction is essential for proper TLR5 localization to the plasma membrane.
Similarity	Belongs to the Toll-like receptor family.
Subcellular Location	Cell membrane>Single-pass type I membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of TLR5 (Phospho-Tyr798) using PMA treated K562 whole cell lysates. -/+ means absence or presence of N peptide(non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from 3T3-L1P6(heat shock treatment), using Phospho-TLR5 (Tyr798) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TLR5 antibody	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 (By similarity).
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	215274239
NCBI GeneID	7100
UniProt Accession #	O60602; O15456; Q32MI2; Q32MI3; B1AZ05; B3Y633; B9VJ63; D1CS80; D3DTB8
Molecular Weight	858
NCBI Official Full Name	Toll-like receptor 5
NCBI Official Synonym Full Names	toll-like receptor 5
NCBI Official Symbol	TLR5
NCBI Official Synonym Symbols	SLE1; TIL3; SLEB1; MELIOS
NCBI Protein Information	toll-like receptor 5; toll/interleukin-1 receptor-like protein 3; systemic lupus erythematosus susceptibility 1
UniProt Protein Name	Toll-like receptor 5
UniProt Gene Name	TLR5
UniProt Synonym Gene Names	TIL3
UniProt Entry Name	TLR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.