

Anti-TLR5 Picoband Antibody

Catalog # ABO12140

Product Information

Application	WB, IHC-P
Primary Accession	O60602
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Toll-like receptor 5(TLR5) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7100
Other Names	Toll-like receptor 5, Toll/interleukin-1 receptor-like protein 3, TLR5, TIL3
Calculated MW	97800
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Membrane ; Single-pass type I membrane protein .
Tissue Specificity	Highly expressed in ovary and in peripheral blood leukocytes, especially in monocytes, less in CD11c+ immature dendritic cells. Also detected in prostate and testis.
Source	Eukaryota
Protein Name	Toll-like receptor 5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TLR5 (801-828aa MKHQSIRGFVQKQQYLRWPEDFQDVGWF), different from the related mouse sequence by five amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the Toll-like receptor family.

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- κ B activation, cytokine secretion and induction of the inflammatory response (PubMed: 11489966 , PubMed: 20855887). 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)

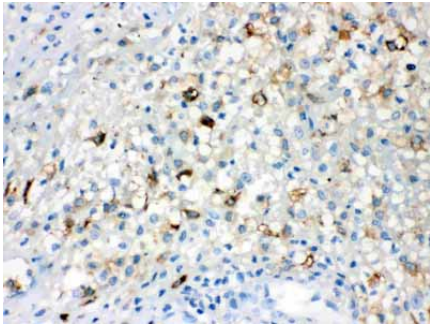
Background

TLR5 encodes a member of the toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF- κ B, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.

Images



Anti- TLR5 Picoband antibody, ABO12140, Western blotting
 All lanes: Anti TLR5 (ABO12140) at 0.5ug/ml
 JURKAT Whole Cell Lysate at 40ug
 Predicted bind size: 98KD
 Observed bind size: 98KD



Anti- TLR5 Picoband antibody, ABO12140, IHC(P)IHC(P):
Human Appendicitis Tissue

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