

Anti-TLR2 Picoband Antibody
 Catalog # ABO10023

Specification

Anti-TLR2 Picoband Antibody - Product Information

Application **WB**
 Primary Accession [O60603](#)
 Host **Rabbit**
 Reactivity **Human, Mouse, Rat**
 Clonality **Polyclonal**
 Format **Lyophilized**

Description

Rabbit IgG polyclonal antibody for Toll-like receptor 2(TLR2) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TLR2 Picoband Antibody - Additional Information

Gene ID 7097

Other Names

Toll-like receptor 2, Toll/interleukin-1 receptor-like protein 4, CD282, TLR2, TIL4

Calculated MW

89838 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

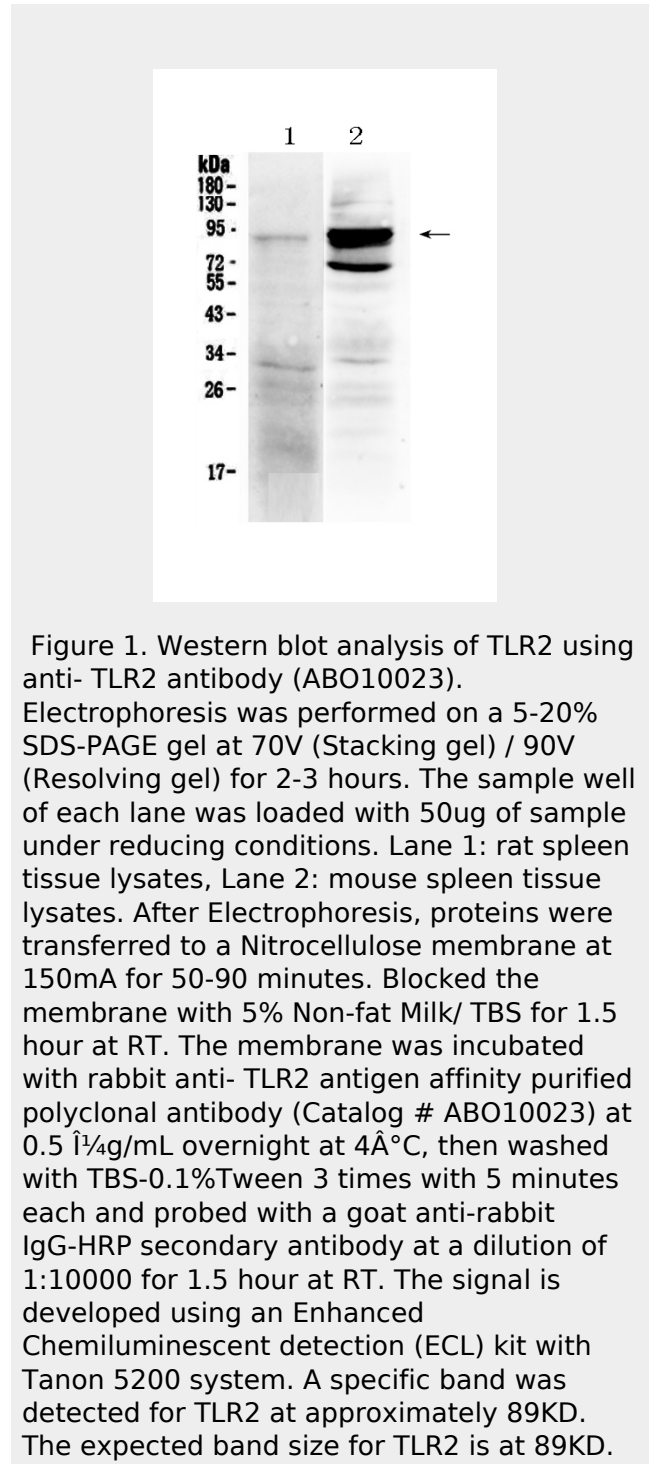
Subcellular Localization

Membrane ; Single-pass type I membrane protein .

Tissue Specificity

Highly expressed in peripheral blood leukocytes, in particular in monocytes, in bone marrow, lymph node and in spleen. Also detected in lung and in fetal liver. Levels are low in other tissues.

Protein Name



Anti-TLR2 Picoband Antibody - Background

Toll-like receptor 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human TLR2 recombinant protein (Position: H610-S784). Human TLR2 shares 87.4% amino acid (aa) sequence identity with mouse TLR2.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, 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.

Toll-like receptor 2, also known as TLR-2, is a protein that in humans is encoded by the TLR2 gene. It has also been designated as CD282 (cluster of differentiation 282). TLR-2 plays a role in the immune system. And TLR-2 is a membrane protein, a receptor, which is expressed on the surface of certain cells and recognizes foreign substances and passes on appropriate signals to the cells of the immune system. TLR2 expresses as 4- and 4.4-kb mRNAs in heart, brain, and muscle.

Anti-TLR2 Picoband Antibody - Protein Information

Name TLR2

Synonyms TIL4

Function

Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides (PubMed:21078852, PubMed:17889651). Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also activate immune cells and promote apoptosis in response to the lipid moiety of lipoproteins (PubMed:10426995).

PubMed:10426996). Recognizes mycoplasma macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulins (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6 (PubMed:11441107). Stimulation of monocytes in vitro with M.tuberculosis PstS1 induces p38 MAPK and ERK1/2 activation primarily via this receptor, but also partially via TLR4 (PubMed:16622205). MAPK activation in response to bacterial peptidoglycan also occurs via this receptor (PubMed:16622205). Acts as a receptor for M.tuberculosis lipoproteins LprA, LprG, LpqH and PstS1, some lipoproteins are dependent on other coreceptors (TLR1, CD14 and/or CD36); the lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712). M.tuberculosis HSP70 (dnaK) but not HSP65 (groEL-2) acts via this protein to stimulate NF-kappa-B expression (PubMed:15809303). Recognizes M.tuberculosis major T-antigen EsxA (ESAT-6) which inhibits downstream MYD88-dependent signaling (shown in mouse) (By similarity). Forms activation clusters composed of several receptors depending on the ligand, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Forms the cluster TLR2:TLR6:CD14:CD36 in response to diacylated lipopeptides and TLR2:TLR1:CD14 in response to triacylated lipopeptides (PubMed:16880211). Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM (By similarity).

Cellular Location

Membrane

{ECO:0000250|UniProtKB:Q9QUN7}; Single-pass type I membrane protein. Cytoplasmic vesicle, phagosome membrane

{ECO:0000250|UniProtKB:Q9QUN7};

Single-pass type I membrane protein.

Membrane raft. 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 diacylated lipoproteins,

TLR2:TLR6 heterodimers are recruited in lipid rafts, this recruitment determines the intracellular targeting to the Golgi

apparatus. Triacylated lipoproteins induce the same mechanism for TLR2:TLR1

heterodimers.

Tissue Location

Highly expressed in peripheral blood leukocytes, in particular in monocytes, in bone marrow, lymph node and in spleen.

Also detected in lung and in fetal liver.

Levels are low in other tissues

Anti-TLR2 Picoband 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](#)