**Product Name: TLR2 (15K3) Rabbit Monoclonal** 

**Antibody** 

Catalog #: AMRe18986



## **Summary**

Production Name TLR2 (15K3) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

Host Rabbit
Application WB,ICC/IF
Reactivity Human

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Monoclonal Form Liquid

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

**Buffer** preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

**Purification** Affinity purification

### **Immunogen**

Gene Name TLR2

Alternative Names TLR2;CD282;TIL4;Toll-like receptor 2;Toll/interleukin-1 receptor-like protein 4;

**Gene ID** 7097.0 **SwissProt ID** 060603.

# **Application**

**Dilution Ratio** WB 1:1000, ICC/IF 1:50

Molecular Weight 90kDa

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## **Background**

Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in Drosophila, play a pivotal role in innate immune responses (1-3). TLRs recognize conserved motifs found in various pathogens and mediate defense responses. Triggering of the TLR pathway leads to the activation of NF-kB and subsequent regulation of immune and inflammatory genes. 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: <a href="http://www.uniprot.org/citations/21078852" target=" blank">21078852</a>, PubMed:<a href="http://www.uniprot.org/citations/17889651" target=" blank">17889651</a>). 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: <a href="http://www.uniprot.org/citations/10426995" target=" blank">10426995</a>, PubMed: <a href="http://www.uniprot.org/citations/10426996" target="\_blank">10426996</a>). Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6 (PubMed: <a href="http://www.uniprot.org/citations/11441107" target=" blank">11441107</a>). 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: <a href="http://www.uniprot.org/citations/16622205" target=" blank">16622205</a>). MAPK activation in response to bacterial peptidoglycan also occurs via this receptor (PubMed: <a href="http://www.uniprot.org/citations/16622205" target=" blank">16622205</a>). 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:<a href="http://www.uniprot.org/citations/19362712" target=" blank">19362712</a>). M.tuberculosis HSP70 (dnaK) but not HSP65 (groEL-2) acts via this protein to stimulate NF-kappa-B expression (PubMed:<a href="http://www.uniprot.org/citations/15809303" target=" blank">15809303</a>). Recognizes M.tuberculosis major Tantigen 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: <a href="http://www.uniprot.org/citations/16880211" target="\_blank">16880211 </a>). Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM (By similarity).

## **Research Area**

#### **Image Data**

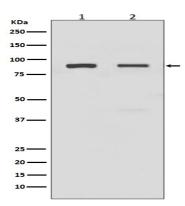
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Western blot analysis of TLR2 expression in (1) A549 cell lysate; (2) HeLa cell lysate.

#### Note

For research use only.

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