

产品名称: TLR2 (15K3) Rabbit Monoclonal Antibody  
产品货号: AMRe18986



## 产品概述 (Summary)

|                        |                                        |
|------------------------|----------------------------------------|
| 产品名称 (Production Name) | TLR2 (15K3) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody |
| 宿主 (Host)              | Rabbit                                 |
| 应用 (Application)       | WB, ICC/IF                             |
| 种属反应性 (Reactivity)     | Human                                  |

## 产品性能 (Performance)

|                     |                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                                                                                 |
| 修饰 (Modification)   | Unmodified                                                                                                                                                                                   |
| 同种型 (Isotype)       | IgG                                                                                                                                                                                          |
| 克隆 (Clonality)      | Monoclonal                                                                                                                                                                                   |
| 形式 (Form)           | Liquid                                                                                                                                                                                       |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                                                                                     |
| 储存溶液 (Buffer)       | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| 纯化方式 (Purification) | Affinity purification                                                                                                                                                                        |

## 免疫原信息 (Immunogen)

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | TLR2                                                                             |
| 别名 (Alternative Names) | TLR2;CD282;TIL4;Toll-like receptor 2;Toll/interleukin-1 receptor-like protein 4; |
| 基因 ID (Gene ID)        | 7097.0                                                                           |
| 蛋白 ID (SwissProt ID)   | O60603.                                                                          |

## 产品应用 (Application)

|                          |                                   |
|--------------------------|-----------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000, ICC/IF 1:20-1:50 |
| 蛋白分子量 (Molecular Weight) | 90kDa                             |

## 研究背景 (Background)

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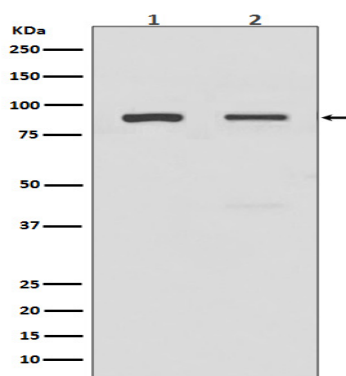


Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in *Drosophila*, play a pivotal role in innate immune responses (1-3). TLRs recognize conserved motifs found in various pathogens and mediate defense responses. Triggering of the TLR pathway leads to the activation of NF- $\kappa$ B 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: [21078852](http://www.uniprot.org/citations/21078852), PubMed: [17889651](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/10426995), PubMed: [10426996](http://www.uniprot.org/citations/10426996)). 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: [11441107](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/16622205)). MAPK activation in response to bacterial peptidoglycan also occurs via this receptor (PubMed: [16622205](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/19362712)). *M.tuberculosis* HSP70 (dnaK) but not HSP65 (groEL-2) acts via this protein to stimulate NF- $\kappa$ B expression (PubMed: [15809303](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/16880211)). Required for normal uptake of *M.tuberculosis*, a process that is inhibited by *M.tuberculosis* LppM (By similarity).

## 研究领域 (Research Area)

## 图片 (Image Data)

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

### 注意事项 (Note)

For research use only .