# TLR2 Mouse mAb

CatalogNo: YM0621  **Orthogonal Validated** 

## Key Features

**Host Species**
- Mouse

**Reactivity**
- Human

**Applications**
- WB,ELISA

**MW**
- 90kD (Calculated)

## Recommended Dilution Ratios

**WB 1:500-1:2000**
**ELISA 1:10000**
**Not yet tested in other applications.**

## Storage

| | |
|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

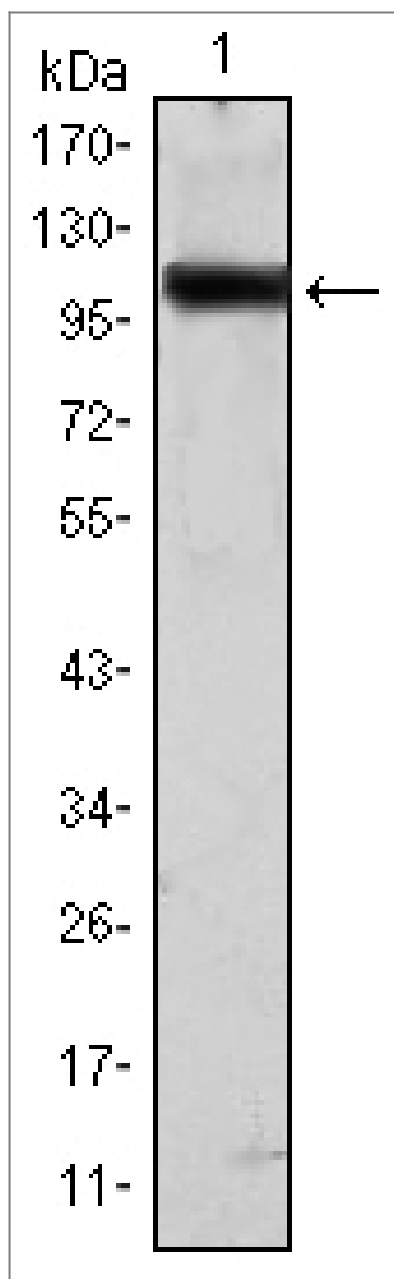| | |
|---|---|
| **Clonality** | Monoclonal |

## Immunogen Information

| | |
|---|---|
| **Immunogen** | Purified recombinant fragment of human TLR2 expressed in E. Coli. |
| **Specificity** | TLR2 Monoclonal Antibody detects endogenous levels of TLR2 protein. |

## Target Information

| | |
|---|---|
| **Gene name** | TLR2 |

| | **Protein Name** | Toll-like receptor 2 | |
|---|---|---|---|

| **Organism** | **Gene ID** | **UniProt ID** |
|---|---|---|
| Human | 7097; | O60603; |
| Mouse | | Q9QUN7; |

**Cellular Localization**

Membrane ; Single-pass type I membrane protein . Cytoplasmic vesicle, phagosome membrane ; Single-pass type I membrane protein . Membrane raft . 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 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.

**Function**

Function:Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also promote apoptosis in response to lipoproteins. 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.,polymorphism:Genetic variations in TLR2 are associated with suceptibility to leprosy [MIM:246300]. Leprosy is a chronic disease associated with depressed cellular (but not humoral) immunity, the bacterium requires a lower temperature than 37 degrees Celsius and thrives particularly in peripheral Schwann cells and macrophages. The Trp-677 polymorphism in the intracellular domain of TLR2 has a role in susceptibility to lepromatous leprosy. Wild-type TLR2 mediates CD14-enhanced Mycobacterium leprae-dependent activation of NFKB1, but TLR2 containing the Trp-677 polymorphism did not. The impaired function of the Trp-677 polymorphism provides a molecular mechanism for the poor cellular immune response associated with lepromatous leprosy.,PTM:Glycosylation of Asn-442 is critical for secretion of the N-terminal ectodomain of TLR2.,similarity:Belongs to the Toll-like receptor family.,similarity:Contains 1 TIR domain.,similarity:Contains 14 LRR (leucine-rich) repeats.,subunit:Interacts with LY96, TLR1 and TLR6 (via extracellular domain). Binds MYD88 (via TIR domain). Interacts with TICAM1. Ligand binding induces the formation of a heterodimer with TLR1.,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.,

## | Validation Data

Western Blot analysis using TLR2 Monoclonal Antibody against HeLa (1) cell lysate.

| kDa |
|-----|
| 170- |
| 130- |
| 95- |
| 72- |
| 55- |
| 43- |
| 34- |
| 26- |
| 17- |
| 11- |

## Contact information

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Please scan the QR code to access additional product information:
**TLR2 Mouse mAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents