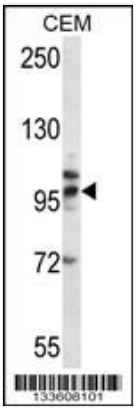
# TLR2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | TLR2, Polyclonal Antibody |
| **Full Product Name** | TLR2, ID (TLR2, TIL4, Toll-like receptor 2, Toll/interleukin-1 receptor-like protein 4, CD282) (PE) |
| **Product Gene Name** | anti-TLR2 antibody |
| **Product Synonym Names** | TLR2; TIL4; Toll-like receptor 2; Toll/interleukin-1 receptor-like protein 4; CD282 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 89,838 Da |
| **Chromosome Location** | Chromosome: 4; NC_000004.11 (154605441..154627243). Location: 4q32 |
| **OMIM** | 246300 |
| **3D Structure** | ModBase 3D Structure for O60603 |
| **Immunogen** | TLR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 280-310 amino acids from the Central region of human TLR2. |
| **Conjugate** | PE |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-TLR2 antibody** | Antibodies; Toll Like Receptors (TLR) |
| **Applications Tested/Suitable for anti-TLR2 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-TLR2 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-TLR2 antibody** | The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB. |

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| **Product References and Citations for anti-TLR2 antibody** | Chambers, M.A., et al. Biochem. Biophys. Res. Commun. 400(3):403-408(2010). Franchim, C.S., et al. Hypertens Pregnancy (2010). In press: Selvaraj, P., et al. Tuberculosis (Edinb) 90(5):306-310(2010). Xie, F., et al. Hypertens Pregnancy 29(4):390-398(2010). Qian, F.H., et al. J Investig Allergol Clin Immunol 20(4):340-346(2010). |
| **Other Notes** | Small volumes of anti-TLR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for TLR2 purchase** | MBS6355865 is an antibody targeting TLR2. Also known as TLR2, ID (TLR2, TIL4, Toll-like receptor 2, Toll/interleukin-1 receptor-like protein 4, CD282) (PE). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-TLR2 antibody**
TLR2 Antibody (Center) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the TLR2 antibody detected the TLR2 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 19718734 |
| **NCBI GeneID** | 7097 |
| **NCBI Accession #** | NP_003255.2 |
| **UniProt Primary Accession #** | O60603 |
| **UniProt Secondary Accession #** | O15454; Q8NI00; B3Y612; D1CS45; D1CS48; D1CS49 |
| **UniProt Related Accession #** | O60603 |
| **GenBank Nucleotide #** | NM_003264.3 |
| **NCBI Official Full Name** | toll-like receptor 2 |
| **NCBI Official Synonym Full Names** | toll-like receptor 2 |
| **NCBI Official Symbol** | TLR2 |
| **NCBI Official Synonym Symbols** | TIL4; CD282 |
| **UniProt Protein Name** | Toll-like receptor 2 |
| **UniProt Synonym Protein Names** | Toll/interleukin-1 receptor-like protein 4 |
| **Protein Family** | Toll-like receptor |
| **UniProt Gene Name** | TLR2 |
| **UniProt Synonym Gene Names** | TIL4 |
| **UniProt Entry Name** | TLR2_HUMAN |
| **NCBI Protein Information** | toll-like receptor 2; toll/interleukin 1 receptor-like 4; toll/interleukin-1 receptor-like protein 4 |

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| **UniProt Comments for TLR2** | TLR2: 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. 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. Interacts with CNPY3. 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. Belongs to the Toll-like receptor family.<br><br>Protein type: Apoptosis; Motility/polarity/chemotaxis; Cell surface; Receptor, misc.; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 4q32<br><br>Cellular Component: cell surface; cell projection; integral to plasma membrane; cytoplasm; plasma membrane; external side of plasma membrane<br><br>Molecular Function: peptidoglycan binding; protein binding; transmembrane receptor activity; protein heterodimerization activity; triacylated lipoprotein binding; lipopolysaccharide receptor activity; receptor activity; pattern recognition receptor activity; diacylated lipoprotein binding<br><br>Biological Process: positive regulation of nitric oxide biosynthetic process; response to toxin; positive regulation of leukocyte migration; leukotriene metabolic process; positive regulation of NF-kappaB import into nucleus; detection of triacylated bacterial lipoprotein; positive regulation of interleukin-10 production; activation of NF-kappaB transcription factor; positive regulation of interferon-beta production; positive regulation of oligodendrocyte differentiation; toll-like receptor 4 signaling pathway; negative regulation of interleukin-12 production; detection of diacylated bacterial lipoprotein; cell surface pattern recognition receptor signaling pathway; positive regulation of interleukin-6 production; positive regulation of tumor necrosis factor production; positive regulation of chemokine production; toll-like receptor 2 signaling pathway; defense response to Gram-positive bacterium; myelin formation in the central nervous system; positive regulation of transcription from RNA polymerase II promoter; response to progesterone stimulus; I-kappaB phosphorylation; positive regulation of nitric-oxide synthase biosynthetic process; apoptosis; positive regulation of interleukin-12 production; microglial cell activation; response to molecule of fungal origin; positive regulation of interleukin-18 production; signal transduction; nitric oxide metabolic process; response to insulin stimulus; positive regulation of interleukin-8 production; negative regulation of cell proliferation; lipopolysaccharide-mediated signaling pathway; inflammatory response; positive regulation of Wnt receptor signaling pathway; positive regulation of tumor necrosis factor biosynthetic process; positive regulation of toll-like receptor signaling pathway; induction by symbiont of defense-related host nitric oxide production; MyD88-dependent toll-like receptor signaling pathway; negative regulation of interleukin-17 production; response to hypoxia; toll-like receptor signaling pathway; innate immune response; immune response; chloramphenicol transport; positive regulation of cytokine secretion; positive regulation of inflammatory response<br><br>Disease: Leprosy, Susceptibility To, 3; Mycobacterium Tuberculosis, Susceptibility To |
| **Research Articles on TLR2** | **1.** Polymorphism of TLR4 gene rather than of TLR2 gene associates with severe and complicated course of atopic dermatitis in children. |
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