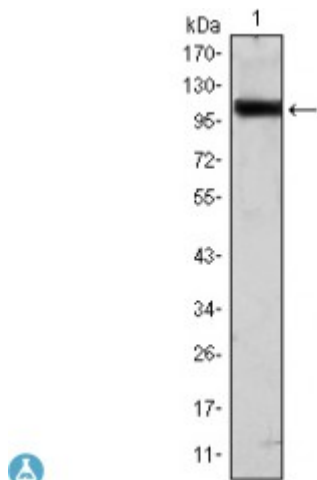


## Anti-TLR2 antibody



<b>Description</b>	Mouse monoclonal to TLR2.
<b>Model</b>	STJ98423
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Purified recombinant fragment of human TLR2 expressed in E. Coli.
<b>Gene ID</b>	<a href="#">7097</a>
<b>Gene Symbol</b>	<a href="#">TLR2</a>
<b>Dilution range</b>	WB 1:500-1:2000ELISA 1:10000
<b>Specificity</b>	TLR2 Monoclonal Antibody detects endogenous levels of TLR2 protein.
<b>Tissue Specificity</b>	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.
<b>Purification</b>	Affinity purification
<b>Clone ID</b>	2D6
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Toll-like receptor 2 Toll/interleukin-1 receptor-like protein 4 CD antigen CD282
<b>Clonality</b>	Monoclonal
<b>Conjugation</b>	Unconjugated

<b>Isotype</b>	IgG1
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:11848</a> <a href="#">OMIM:246300</a>
<b>Alternative Names</b>	Toll-like receptor 2 Toll/interleukin-1 receptor-like protein 4 CD antigen CD282
<b>Function</b>	<p>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 . 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 . 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 . 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 . MAPK activation in response to bacterial peptidoglycan also occurs via this receptor . 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 . M.tuberculosis HSP70 (dnaK) but not HSP65 (groEL-2) acts via this protein to stimulate NF-kappa-B expression . Recognizes M.tuberculosis major T-antigen EsxA (ESAT-6) which inhibits downstream MYD88-dependent signaling (shown in mouse) . 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 . Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM .</p>
<b>Sequence and Domain Family</b>	Ester-bound lipid substrates are bound through a crevice formed between the LRR 11 and LRR 12. The ATG16L1-binding motif mediates interaction with ATG16L1.
<b>Cellular Localization</b>	Membrane Cytoplasmic vesicle, phagosome membrane 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.
<b>Post-translational Modifications</b>	Glycosylation of Asn-442 is critical for secretion of the N-terminal ectodomain of TLR2.

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