

## Product datasheet for **TP527674**

### Tlr2 (NM\_011905) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse toll-like receptor 2 (Tlr2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227674 representing NM_011905 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MLRALWLFWILVAITVLFKRCSAQESLSCDASGVCDGRSRFSITSIPSGTLTAAMKSLDLSFNKITYIGHG DLRACANLQVLMKSSRINTIEGDAFYSLGSLHLDLSDNHLSSLSSWFGPLSSLKYLNLMGNPYQTLG VTSLFPNLTNLQTLRIGNVETFEIRRIDFAGLTSLELEIKALSLRNYQSQSLKSIRDIIHHLTLHLS AFLLEIFADILSSVRYLELRDTNLARFQFSPLPVDEVSSPMKKLAFRGSVLTDESFNELLKLLRYILELS EVEFDDCTLNGLGDFNPSESDVVSSELGKVETVTIRRLHIPQFYLYDLSTVYSLLEKVKRITVENS KVFLVPCSFSQHLKSLEFLDLSENLMVEEYLKNSACKGAWPSLQTLVLSQNHLSMQKTGEILLTLKNLTSLDI SRNTFHPMPDSCQWPEKMRFLNLSSTGIRVVKTCIPQTLEVLDSNNNLDLSFLPRLQELYISRNK LKTLPDASLFPVLLVMKIRENAVSTFSKDQLGSFPKLETLEAGDNHFCVSCCELLSFTMETPALAQILVDWPD SYLCDSPPRLHGHRLQDARPSVLECHQAALVSGVCCALLLLLVGALCHHFGHLWYLRMMWAWLQAK RK PKKAPCRDVCYDAFVSYSSEQDSHWVENLMVQQLENSDPPFKLCLHKRDFVPGKWIIDNIIDSIEKSHKTV FVLSNFVRSEWCKYELDFSHFRLFDENNDAAAILVLEPIERKAIPQRFCKLRKIMNTKTYLEWPLDEGQ QEVFWVNLRTAISK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	89.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_036035</a></u>
<b>Locus ID:</b>	24088
<b>UniProt ID:</b>	<u><a href="#">Q9QUN7</a></u>
<b>RefSeq Size:</b>	2874
<b>Cytogenetics:</b>	3 E3
<b>RefSeq ORF:</b>	2352
<b>Synonyms:</b>	Ly105
<b>Summary:</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 (By similarity) (PubMed:15690042). May also promote apoptosis in response to lipoproteins (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 (By similarity). Recognizes M.tuberculosis major T-antigen EsxA (ESAT-6) which inhibits downstream MYD88-dependent signaling (PubMed:17486091). Acts as the major receptor for M.tuberculosis lipoproteins LprA, LprG, LpqH and PhoS1 (pstS1), in conjunction with TLR1 and for some but not all lipoproteins CD14 and/or CD36. The lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712). Recombinant MPT83 from M.tuberculosis stimulates secretion of cytokines (TNF-alpha, IL-6 and IL-12p40) by mouse macrophage cell lines in a TLR2-dependent fashion, which leads to increased host innate immunity responses against the bacterium (PubMed:22174456). Lung macrophages which express low levels of TLR2 respond poorly to stimulation by M.tuberculosis LpqH (PubMed:19362712). Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM (PubMed:27220037). Interacts with TICAM2 (By similarity).[UniProtKB/Swiss-Prot Function]</p>