TLR1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	TLR1, Polyclonal Antibody
Full Product Name	TLR1 Polyclonal Antibody
Product Gene Name	anti-TLR1 antibody
Clonality	Polyclonal
Molecular Weight	90,291 Da
OMIM	601194
3D Structure	ModBase 3D Structure for Q15399
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-TLR1 antibody	MBS8519570 is an antibody targeting TLR1. Also known as TLR1 Polyclonal Antibody.
Other Notes	Small volumes of anti-TLR1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR1. It may not necessarily be applicable to this product.

NCBI GI #	41350337
NCBI GeneID	7096
NCBI Accession #	NP_003254.2
UniProt Primary Accession #	Q15399
UniProt Secondary Accession #	O15452; Q32MK3; Q32MK4; Q9UG90; D1CS39; D1CS41
UniProt Related Accession #	Q15399
GenBank Nucleotide #	NM_003263.3
NCBI Official Full Name	toll-like receptor 1
NCBI Official Synonym Full Names	toll like receptor 1
NCBI Official Symbol	TLR1
NCBI Official Synonym Symbols	TIL; CD281; rsc786; TIL. LPRS5
UniProt Protein Name	Toll-like receptor 1
UniProt Synonym Protein Names	Toll/interleukin-1 receptor-like protein; TIL; CD_antigen: CD281
Protein Family	Toll-like receptor
UniProt Gene Name	TLR1
UniProt Synonym Gene Names	KIAA0012; TIL
NCBI Protein Information	toll-like receptor 1

NCBI Summary for TLR1	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 ubiquitously expressed, and at higher levels than other TLR genes. Different length transcripts presumably resulting from use of alternative polyadenylation site, and/or from alternative splicing, have been noted for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for TLR1	Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides (PubMed:21078852). Forms the activation cluster TLR2:TLR1:CD14 in response to triacylated lipopeptides, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway (PubMed:16880211). Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.
Research Articles on TLR1	**1.** Suggest that the TLR1 rs4833095 polymorphism may play a role in the development and progression of IgA nephropathy in a Chinese Han population.
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