TLR1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	TLR1, Blocking Peptide
Full Product Name	TLR1 Peptide
Product Gene Name	TLR1 blocking peptide
Product Synonym Names	TIL; CD281; rsc786; TIL. LPRS5; KIAA0012; Toll-like receptor 1; TIL; toll-like receptor 1
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store TLR1 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	TLR1 peptide (MBS152276) is used for blocking the activity of TLR1 antibody (MBS151018)
Molecular Weight	90,163 Da
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	16 amino acids near the amino terminus of human TLR1.
Applications Tested/Suitable for TLR1 blocking peptide	Blocking (BL)
Application Notes for TLR1 blocking peptide	TLR1 peptide is used for blocking the activity of TLR1 antibody.
Related Product Information for TLR1 blocking peptide	MBS152276 is a blocking peptide targeting TLR1. Also known as TLR1 Peptide.
Other Notes	Small volumes of TLR1 blocking peptide 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 #	49065550
NCBI GeneID	7096
NCBI Accession #	CAG38593
UniProt Primary Accession #	Q6FI64
UniProt Related Accession #	Q15399
NCBI Official Full Name	TLR1
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
Protein Family	Toll-like receptor
UniProt Gene Name	TLR1
UniProt Entry Name	Q6FI64_HUMAN
NCBI Protein Information	toll-like receptor 1; toll/interleukin-1 receptor-like protein
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	TLR1: Participates in the innate immune response to microbial agents. Cooperates with TLR2 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. Binds MYD88 (via TIR domain). Interacts with CNPY3. Interacts (via extracellular domain) with TLR2. Ligand binding induces the formation of a heterodimer with TLR2. Ubiquitous. Highly expressed in spleen, ovary, peripheral blood leukocytes, thymus and small intestine. Belongs to the Toll-like receptor family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 4p14 Cellular Component: phagocytic vesicle membrane; membrane; integral to plasma membrane; plasma membrane Molecular Function: transmembrane receptor activity; protein heterodimerization activity; receptor activity Biological Process: MyD88-dependent toll-like receptor signaling pathway; positive regulation of tumor necrosis factor biosynthetic process; regulation of cytokine secretion; macrophage activation; positive regulation of interleukin-6 biosynthetic process; innate immune response; immune response; detection of triacylated bacterial lipoprotein; signal transduction; inflammatory response; toll-like receptor 1 signaling pathway Disease: Leprosy, Susceptibility To, 5
Research Articles on TLR1	**1.** Authors demonstrated that TLR1 rs5743618 was associated with asthma and atopic eczema during the first 6 years of life after early bronchiolitis and TLR6 rs5743810 was associated with present atopy at preschool age.
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