Mouse TLR1 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TLR1, Blocking Peptide
Full Product Name	Mouse TLR1 Antibody (C-term) Blocking Peptide
Product Gene Name	Tlr1 blocking peptide
Product Synonym Names	Toll-like receptor 1; Toll/interleukin-1 receptor-like protein; TIL; CD281; Tlr1
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human Mouse TLR1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TLR1 peptide (MBS9221302) is used for blocking the activity of TLR1 antibody (MBS9207864)
Molecular Weight	90,673 Da
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle, phagosome membrane; Single-pass type I membrane protein
Related Product Information for Tlr1 blocking peptide	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. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity).
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.
Searchable Terms for Tlr1 purchase	MBS9221302 is a blocking peptide targeting Tlr1. Also known as Mouse TLR1 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tlr1. It may not necessarily be applicable to this product.

NCBI GI #	20140791
NCBI GeneID	21897
NCBI Accession #	Q9EPQ1.1
UniProt Primary Accession #	Q9EPQ1
UniProt Secondary Accession #	Q9EPW5
UniProt Related Accession #	Q9EPQ1
NCBI Official Full Name	Toll-like receptor 1
NCBI Official Synonym Full Names	toll-like receptor 1
NCBI Official Symbol	Tlr1
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	TIL
UniProt Entry Name	TLR1_MOUSE
NCBI Protein Information	toll-like receptor 1
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 Cellular Component: Golgi apparatus; integral to plasma membrane; lipid raft Molecular Function: protein heterodimerization activity; transmembrane receptor activity Biological Process: defense response; defense response to bacterium; detection of triacylated bacterial lipoprotein; microglial cell activation; positive regulation of interleukin-6 biosynthetic process; positive regulation of tumor necrosis factor biosynthetic process; response to bacterial lipoprotein; toll-like receptor signaling pathway
Research Articles on Tlr1	**1.** Activation of MyD88-dependent TLR1/2 signaling by misfolded alpha-synuclein, a protein linked to neurodegenerative disorders.
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