Mouse TLR6 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TLR6, Blocking Peptide
Full Product Name	Mouse TLR6 Antibody (N-term) Blocking Peptide
Product Gene Name	Tlr6 blocking peptide
Product Synonym Names	Toll-like receptor 6; CD286; Tlr6
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 N-term region of human Mouse TLR6. 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	TLR6 peptide (MBS9221310) is used for blocking the activity of TLR6 antibody (MBS9205577)
Molecular Weight	91,116 Da
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle, phagosome membrane; Single-pass type I membrane protein. Note: Upon complex formation with CD36 and TLR4, internalized through dynamin-dependent endocytosis
Tissue Location	Detected in thymus, spleen, ovary and lung.
Related Product Information for Tlr6 blocking peptide	Participates in the innate immune response to Gram- positive bacteria and fungi. Specifically recognizes diacylated and, to a lesser extent, triacylated lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Cooperates with TLR2 for the cellular activation. In complex with TLR4, promotes sterile inflammation in monocytes/macrophages in response to oxidized low- density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42- binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion.
Other Notes	Small volumes of Tlr6 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 Tlr6 purchase	MBS9221310 is a blocking peptide targeting Tlr6. Also known as Mouse TLR6 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tlr6. It may not necessarily be applicable to this product.

NCBI GI #	157057101
NCBI GeneID	21899
NCBI Accession #	NP_035734
UniProt Primary Accession #	Q9EPW9
UniProt Secondary Accession #	Q9WTQ4
UniProt Related Accession #	Q9EPW9

GenBank Nucleotide #	NM_011604.3
NCBI Official Full Name	toll-like receptor 6
NCBI Official Synonym Full Names	toll-like receptor 6
NCBI Official Symbol	Tlr6
UniProt Protein Name	Toll-like receptor 6
UniProt Synonym Protein Names	CD_antigen: CD286
UniProt Gene Name	Tlr6
UniProt Entry Name	TLR6_MOUSE
NCBI Protein Information	toll-like receptor 6
UniProt Comments for Tlr6	TLR6: Participates in the innate immune response to Gram- positive bacteria and fungi. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. 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 TLR2. Belongs to the Toll-like receptor family. Protein type: Membrane protein, integral; Receptor, misc. Cellular Component: Golgi apparatus; integral to plasma membrane; lipid raft Molecular Function: diacylated lipoprotein binding; protein heterodimerization activity; transmembrane receptor activity Biological Process: defense response to bacterium; detection of diacylated bacterial lipoprotein; inflammatory response; interleukin-1 beta secretion; microglial cell activation; nitric oxide metabolic process; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of interleukin-6 biosynthetic process; positive regulation of JNK activity; response to bacterial lipoprotein; T-helper 1 type immune response; toll-like receptor signaling pathway
Research Articles on Tlr6	**1.** Dengue virus NS1 protein is the viral protein responsible for the activation of TLR2 and TLR6 during Dengue virus infection
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