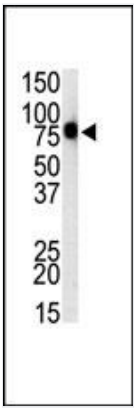
TLR1 Antibody – Rabbit Polyclonal

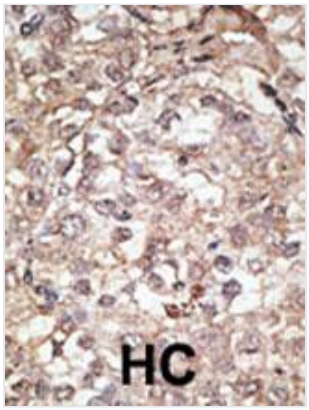
PRODUCT OVERVIEW

Product Name	TLR1, Polyclonal Antibody
Full Product Name	Mouse TLR1 Antibody (C-term)
Product Gene Name	anti-Tlr1 antibody
Product Synonym Names	Toll-like receptor 1; Toll/interleukin-1 receptor-like protein; TIL; CD281; Tlr1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This Mouse TLR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 764-795 amino acids from the C-terminal region of mouse TLR1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	TLR1 peptide (MBS9221302) is used for blocking the activity of TLR1 antibody (MBS9207864)
Molecular Weight	90673
Immunogen Sequence Positions	764-795
3D Structure	ModBase 3D Structure for Q9EPQ1
Antigen Type	Synthetic Peptide
Antigen Source	MOUSE
Product Categories/Family for anti-Tlr1 antibody	Immunology; Signal Transduction
Applications Tested/Suitable for anti-Tlr1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-Tlr1 antibody	WB~~1:1000
Related Product Information for anti-Tlr1 antibody	Higher animals establish host defense by orchestrating innate and adaptive immunity. This is mediated by professional antigen presenting cells, i.e. dendritic cells (DCs). DCs can incorporate pathogens, produce a variety of cytokines, maturate, and present pathogen-derived peptides to T cells, thereby inducing T cell activation and differentiation. These responses are triggered by microbial recognition through type I transmembrane proteins, Toll-like receptors (TLRs) on DCs. TLRs consist of ten members and each TLR is involved in recognizing a variety of microorganism-derived molecular structures. TLR ligands include cell wall components, proteins, nucleic acids, and synthetic chemical compounds, all of which can activate DCs as immune adjuvants. Each TLR can activate DCs in a similar, but distinct manner. For example, TLRs can be divided into subgroups according to their type I interferon (IFN) inducing ability. TLR2 cannot induce IFN-alpha or IFN-beta, but TLR4 can lead to IFN-beta production. Meanwhile, TLR3, TLR7, and TLR9 can induce both IFN-alpha and IFN-beta. Recent evidences suggest that cytoplamic adapters for TLRs are especially crucial for this functional heterogeneity.

Product References and Citations for anti-Tlr1 antibody	Hajjar, A.M., et al., J. Immunol. 166(1):15-19 (2001). Ozinsky, A., et al., Proc. Natl. Acad. Sci. U.S.A. 97(25):13766-13771 (2000).
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.
Searchable Terms for Tlr1 purchase	MBS9207864 is an antibody targeting Tlr1. Also known as Mouse TLR1 Antibody (C-term). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Tlr1 antibody
Western blot analysis of anti-mTLR1 Pab in mouse spleen cell lysate. mTLR1 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry (IHC) of anti-Tlr1 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

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

NCBI GI #	449784903
NCBI GeneID	21897
NCBI Accession #	NP_001263374.1
NCBI Related Accession #	NP_109607.1
UniProt Primary Accession #	Q9EPQ1
UniProt Secondary Accession #	Q9EPW5
UniProt Related Accession #	Q9EPQ1
GenBank Nucleotide #	NM_001276445.1
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: membrane; integral to membrane; plasma membrane; cytoplasmic vesicle; phagocytic vesicle Molecular Function: transmembrane receptor activity; protein heterodimerization activity; triacylated lipoprotein binding Biological Process: positive regulation of tumor necrosis factor biosynthetic process; regulation of cytokine secretion; immune system process; positive regulation of interleukin-6 biosynthetic process; activation of NF-kappaB-inducing kinase; microglial cell activation; defense response; detection of triacylated bacterial lipoprotein; signal transduction; toll-like receptor 1 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; macrophage activation; toll-like receptor signaling pathway; innate immune response; response to bacterial lipoprotein; immune response; inflammatory response
Research Articles on Tlr1	**1.** Postradiotherapeutic NO production was dependent on TLR1 gene expression. Although iNOS activity was reduced by inhibiting TLR1 expression with TLR1-siRNA, it was enhanced by TLR1 overexpression.
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