

Mouse anti-Human TLR2 TLR2 Monoclonal Antibody | anti-TLR2 antibody

TLR2, Mouse, mAb T2.5

CATALOG # AAA77782	HOST Mouse	REACTIVITY Human TLR2	APPLICATIONS Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay
------------------------------	----------------------	---------------------------------	--

PRODUCT SYNONYMS

TLR2; Monoclonal Antibody; Mouse; mAb T2.5; CD282; TIL4; anti-TLR2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human TLR2
Clonality	Monoclonal
Isotype	Mouse IgG1
Purity/Purification	Protein G
Form/Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin. The endotoxin concentration is <24 EU/mg, determined with LAL Assay. For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100ug/ml (varies by lot)
Sequence Length	784
Applicable Applications for anti-TLR2 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), IA (Immunoassay), FCM/FACS (Flow Cytometry)
Immunogen	Mouse TLR2 peptide
Endotoxin	<0.4EU/mg
Positive Control	RAW264.7 cells
Negative Control	CHO cells.
Preparation and Storage	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

IMAGES



Application Data

FC: detection of TLR2 in RAW cells. Red, black and blue line represent the isotype control, cells only and AAA77782 with a concentration of 10 ug/ml, respectively.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-TLR2 antibody	Product Description: The monoclonal antibody T2.5 recognizes human Toll-like receptor 2 (TLR2). Toll-like receptors (TLR) are highly conserved throughout evolution and have been implicated in the innate defense to many pathogens. At present, ligands for several of the TLR's, such as TLR2-6,9, have been identified, confirming their role in first line defense against invading microorganism. In mammals, TLRs are identified as type I transmembrane signaling receptors with an extracellular portion containing leucine-rich repeats with pattern recognition capabilities. Pathogen recognition by TLRs provokes rapid activation of innate immunity by inducing proliferation of proinflammatory cytokines and upregulation of costimulatory molecules and eventually to initiation of adaptive immunity. TLR2 has been identified as a receptor that is central to the innate immune response to lipoproteins of Gram-negative bacteria, several whole Gram-positive bacteria, as well as a receptor for peptidoglycan and lipoteichoic acid and other bacterial cell membrane products. It is suggested that TLR2 is able to recognize such a wide variety of PAMPs (pathogen-specific molecular patterns) by forming heterodimers with other TLRs like e.g. TLR6. TLR2 is essential for recognizing lipopeptides and lipoproteins from several microorganisms and also peptidoglycans derived from gram-positive bacteria. Bacterial species as diverse as mycobacteria, spirochetes, mycoplasma, Staphylococcus aureus, and Streptococcus pneumoniae have all been shown to mediate cellular activation via TLR2.
References	1. Meng, G et al; Antagonistic antibody prevents toll-like receptor 2-driven lethal shock-like syndromes. J Clin Invest 2004, 113: 1473 2. Roura-Mir, C et al; Mycobacterium tuberculosis regulates CD1 antigen presentation pathways through TLR-2. J Immunol 2005, 175: 1758 3. Leemans, J et al; Renal-associated TLR2 mediates ischemia/reperfusion injury in the kidney. J Clin Invest 2005 115: 2894 4. Spiller, S et al; TLR4-induced IFN-γ production increases TLR2 sensitivity and drives Gram-negative sepsis in mice. JEM 2008, 205: 1747 5. Suttmoller, R et al; Toll-like receptor 2 controls expansion and function of regulatory T-cells. J Clin Invest 2006, 116:485 6. Brull, F et al; TLR2 activation is essential to induce a Th1 shift in human peripheral blood mononuclear cells by plant stanols and plant sterols. J Biol Chem 2010, 285:2951 7. Guan, Y et al; Human TLRs 10 and 1 share common mechanism of innate immune sensing but not signaling. J Immunol 2010, 184:5094

NCBI AND UNIPROT INFORMATION

NCBI GI #	19718734
NCBI GeneID	7097
NCBI Accession #	NP_003255.2
NCBI GenBank Nucleotide #	NM_003264.3
NCBI Official Full Name	toll-like receptor 2
NCBI Official Synonym Full Names	toll-like receptor 2
NCBI Official Symbol	TLR2
NCBI Official Synonym Symbols	TIL4; CD282
NCBI Protein Information	toll-like receptor 2; toll/interleukin 1 receptor-like 4; toll/interleukin-1 receptor-like protein 4
UniProt Protein Name	Toll-like receptor 2
UniProt Gene Name	TLR2
UniProt Synonym Gene Names	TIL4
UniProt Entry Name	TLR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.