TLR8 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TLR8, Monoclonal Antibody
Full Product Name	TLR8 (Toll-like Receptor 8, CD288, MGC119599, MGC119600) (HRP)
Product Gene Name	anti-TLR8 antibody
Product Synonym Names	Toll-like Receptor 8; CD288; MGC119599; MGC119600
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1000000
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes TLR8.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	121,764 Da
OMIM	300366
3D Structure	ModBase 3D Structure for Q9NR97
Immunogen	TLR8 (NP_619542, 723aa-825aa) full length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RISHLPSGFLSEVSSLKHLDLSSNLLKTINKSALETKTTTKLSMLELHGNPFECTCDIGDFRRWMDEHLNVKIPRLVDVICASPGDQRGKSIVSLELTTCVSD
Conjugate	HRP
Product Categories/Family for anti-TLR8 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-TLR8 antibody	ELISA (EIA)
Application Notes for anti-TLR8 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-TLR8 antibody	MBS6180430 is an antibody targeting TLR8. Also known as TLR8 (Toll-like Receptor 8, CD288, MGC119599, MGC119600) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-TLR8 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR8. It may not necessarily be applicable to this product.

NCBI GI #	20302168
NCBI GeneID	51311
NCBI Accession #	NP_619542
UniProt Primary Accession #	Q9NR97
UniProt Secondary Accession #	Q495P4; Q6UXL6; Q9NYG9; B3Y654; D1CS70; D1CS76
UniProt Related Accession #	Q9NR97
GenBank Nucleotide #	NM_138636.5
NCBI Official Full Name	toll-like receptor 8 isoform 2
NCBI Official Synonym Full Names	toll-like receptor 8
NCBI Official Symbol	TLR8
NCBI Official Synonym Symbols	CD288
UniProt Protein Name	Toll-like receptor 8
Protein Family	Toll-like receptor
UniProt Gene Name	TLR8
UniProt Entry Name	TLR8_HUMAN
NCBI Protein Information	toll-like receptor 8
NCBI Summary for TLR8	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 predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X. [provided by RefSeq, Jul 2008]

UniProt Comments for TLR8	TLR8: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Belongs to the Toll-like receptor family. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: Xp22 Cellular Component: Golgi membrane; endoplasmic reticulum membrane; integral to membrane; endosome membrane Molecular Function: single-stranded RNA binding; DNA binding; RNA binding; double-stranded RNA binding; drug binding; receptor activity Biological Process: I-kappaB kinase/NF-kappaB cascade; regulation of cytokine secretion; response to virus; positive regulation of interleukin-8 biosynthetic process; microglial cell activation; positive regulation of interferon-alpha biosynthetic process; toll-like receptor 8 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; positive regulation of innate immune response; positive regulation of interferon-beta biosynthetic process; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; immunoglobulin mediated immune response; inflammatory response; defense response to virus; positive regulation of interferon-gamma biosynthetic process
Research Articles on TLR8	**1.** HIV-1 infection induced the expression of pro-IL-1beta via TLR8-mediated mechanisms and activated caspase-1 through the NLRP3 inflammasome to cleave pro-IL-1beta into bioactive IL-1beta
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