TLR8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TLR8, Polyclonal Antibody
Full Product Name	TLR8, CT (Toll-like Receptor 8, CD288, UNQ249/PRO286) (PE)
Product Gene Name	anti-TLR8 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human TLR8.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	119,828 Da
Chromosome Location	Chromosome: X; NC_000023.10 (12924739..12941288). Location: Xp22
OMIM	300366
3D Structure	ModBase 3D Structure for Q9NR97
Immunogen	Synthetic peptide selected from the C-terminal region of human TLR8 (KLH).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TLR8 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-TLR8 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-TLR8 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TLR8 antibody	MBS6503047 is an antibody targeting TLR8. Also known as TLR8, CT (Toll-like Receptor 8, CD288, UNQ249/PRO286) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TLR8 antibody	1. Heil, F., et al., Science 303(5663):1526-1529 (2004). 2. Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003). 3. Miettinen, M., et al., Genes Immun. 2(6):349-355 (2001). 4. Chuang, T.H., et al., Eur. Cytokine Netw. 11(3):372-378 (2000). 5. Du, X., et al., Eur. Cytokine Netw. 11(3):362-371 (2000).

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_619542.1
UniProt Primary Accession #	Q9NR97
UniProt Secondary Accession #	Q495P4; Q6UXL6; Q9NYG9; B3Y654
UniProt Related Accession #	Q9NR97
GenBank Nucleotide #	NM_138636.4
NCBI Official Full Name	toll-like receptor 8
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.** Cervical tumor Langerhans cells lacked TLR9 expression and were functionally anergic to all the 3: TLR7, TLR8, and TLR9 ligands, which may play a crucial role in immune tolerance.
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