TLR4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TLR4, Monoclonal Antibody
Full Product Name	TLR4 (Toll-like Receptor 4, ARMD10, CD284, Toll, hToll) (Biotin)
Product Gene Name	anti-TLR4 antibody
Product Synonym Names	Toll-like Receptor 4; ARMD10; CD284; Toll; hToll
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3G12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes TLR4.
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. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	91,296 Da
OMIM	603030
3D Structure	ModBase 3D Structure for O00206
Immunogen	TLR4 (NP_612564.1, 130aa-201aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KLVAVETNLASLENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLTNLEHLDLSSNKIQSIYCTDLRVLHQM
Conjugate	Biotin
Product Categories/Family for anti-TLR4 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-TLR4 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-TLR4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TLR4 antibody	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 receptor is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain. [provided by RefSeq]

Other Notes	Small volumes of anti-TLR4 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 TLR4 purchase	MBS6172262 is an antibody targeting TLR4. Also known as TLR4 (Toll-like Receptor 4, ARMD10, CD284, Toll, hToll) (Biotin). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR4. It may not necessarily be applicable to this product.

NCBI GI #	19924149
NCBI GeneID	7099
NCBI Accession #	NP_612564.1
UniProt Primary Accession #	O00206
UniProt Secondary Accession #	Q5VZI8; Q5VZI9; Q9UK78; Q9UM57; A8K1Y8; A9XLP9; A9XLQ0; A9XLQ1; B4E194; D1CS52; D1CS53
UniProt Related Accession #	O00206
GenBank Nucleotide #	NM_138554.4
NCBI Official Full Name	toll-like receptor 4 isoform A
NCBI Official Synonym Full Names	toll like receptor 4
NCBI Official Symbol	TLR4
NCBI Official Synonym Symbols	TOLL; CD284; TLR-4; ARMD10
UniProt Protein Name	Toll-like receptor 4
UniProt Synonym Protein Names	hToll
Protein Family	Toll-like receptor
UniProt Gene Name	TLR4
UniProt Entry Name	TLR4_HUMAN
NCBI Protein Information	toll-like receptor 4
NCBI Summary for TLR4	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 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 receptor has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
Research Articles on TLR4	**1.** An association exists between P. gingivalis and P. intermedia with increased TLR-4 and NF-kappaB expression in the placenta of pre-eclamptic women with periodontitis.
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