TLR3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TLR3, Polyclonal Antibody
Full Product Name	TLR3, CT (APC)
Product Gene Name	anti-TLR3 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 Allophycocyanin (APC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	103,829 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (186990309..187006252). Location: 4q35
OMIM	603029
3D Structure	ModBase 3D Structure for O15455
Immunogen	TLR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 754~783 amino acids from the C-terminal region of human TLR3.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TLR3 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-TLR3 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-TLR3 antibody	IHC: 1:50-100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TLR3 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 pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene.

Product References and Citations for anti-TLR3 antibody	Heinz, S., et al., J. Biol. Chem. 278(24):21502-21509 (2003). Sarkar, S.N., et al., J. Biol. Chem. 278(7):4393-4396 (2003). Matsumoto, M., et al., Biochem. Biophys. Res. Commun. 293(5):1364-1369 (2002). Takami, M., et al., J. Immunol. 169(3):1516-1523 (2002). Kadowaki, N., et al., J. Exp. Med. 194(6):863-869 (2001).
Other Notes	Small volumes of anti-TLR3 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 TLR3 purchase	MBS6355878 is an antibody targeting TLR3. Also known as TLR3, CT (APC). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR3. It may not necessarily be applicable to this product.

NCBI GI #	86161330
NCBI GeneID	7098
NCBI Accession #	ABC86910.1
UniProt Primary Accession #	O15455
UniProt Secondary Accession #	Q4VAL2
UniProt Related Accession #	O15455
NCBI Official Full Name	TLR3
NCBI Official Synonym Full Names	toll-like receptor 3
NCBI Official Symbol	TLR3
NCBI Official Synonym Symbols	CD283; IIAE2
UniProt Protein Name	Toll-like receptor 3
Protein Family	Toll-like receptor
UniProt Gene Name	TLR3
UniProt Entry Name	TLR3_HUMAN
NCBI Protein Information	toll-like receptor 3

UniProt Comments for TLR3	TLR3: a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. Most abundantly expressed in placenta and pancreas. Restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection. Acts via MyD88 and TRAF6, leading to the activation of NF-kappaB and the production of type I interferon. Protein type: Receptor, cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q35 Cellular Component: Golgi membrane; endoplasmic reticulum membrane; cell surface; membrane; lysosomal membrane; integral to plasma membrane; cytoplasm; endosome membrane Molecular Function: identical protein binding; protein binding; transmembrane receptor activity; double-stranded RNA binding; receptor activity Biological Process: negative regulation of osteoclast differentiation; I-kappaB kinase/NF-kappaB cascade; positive regulation of interleukin-12 production; positive regulation of apoptosis; positive regulation of JNK cascade; positive regulation of NF-kappaB import into nucleus; positive regulation of interferon-alpha biosynthetic process; toll-like receptor 3 signaling pathway; signal transduction; activation of NF-kappaB transcription factor; positive regulation of interleukin-8 production; response to exogenous dsRNA; positive regulation of interferon-beta production; inflammatory response; defense response to virus; toll-like receptor 4 signaling pathway; MyD88-independent toll-like receptor signaling pathway; male gonad development; activation of NF-kappaB-inducing kinase; positive regulation of interleukin-6 production; positive regulation of tumor necrosis factor production; positive regulation of chemokine production; positive regulation of toll-like receptor signaling pathway; hyperosmotic response; positive regulation of chemokine biosynthetic process; detection of virus; defense response to bacterium; positive regulation of interferon-beta biosynthetic process; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; I-kappaB phosphorylation; microglial cell activation during immune response; positive regulation of inflammatory response; positive regulation of interferon-gamma biosynthetic process Disease: Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on TLR3	**1.** TLR3 +1234C/T polymorphism is associated with HBV-related hepatocellular carcinoma.
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