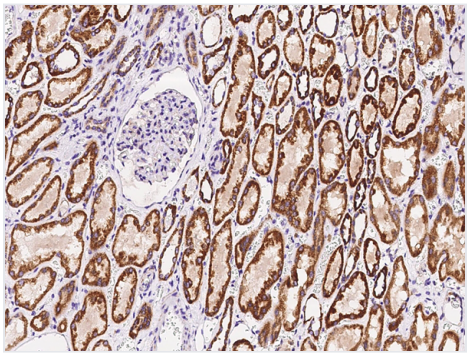
TLR3 Antibody – Rabbit Polyclonal

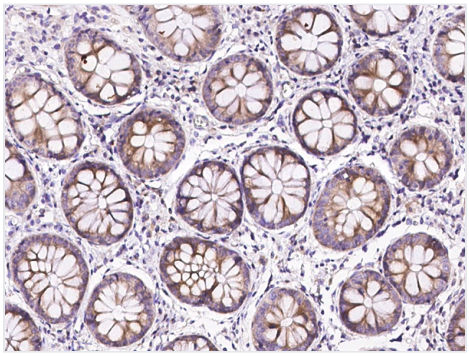
PRODUCT OVERVIEW

Product Name	TLR3, Polyclonal Antibody
Full Product Name	Anti-TLR3 Antibody, Rabbit Polyclonal
Product Gene Name	anti-TLR3 antibody
Product Synonym Names	TLR3/CD283 Antibody, Rabbit PAb, Antigen Affinity Purified; toll like receptor 3; Anti-CD283 Antibody; Anti-IIAE2 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human TLR3/CD283
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
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	A synthetic peptide corresponding to the center region of the Human TLR3/CD283
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human TLR3/CD283, and purified by antigen affinity chromatography.
Product Categories/Family for anti-TLR3 antibody	Neuroinflammation Cancer Drug Targets
Applications Tested/Suitable for anti-TLR3 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-TLR3 antibody	IHC-P: 1:200-1:1000 ICC/IF: 1:300-1:10,000
Related Product Information for anti-TLR3 antibody	Toll-like receptor 3 (TLR3) also known as CD283 (cluster of differentiation 283) is a member of the Toll-like receptor family of pattern recognition receptors of the innate immune system. TLR3/CD283 plays a fundamental role in pathogen recognition and activation of innate immunity. TLR3 is a nucleotide-sensing TLR that is activated by double-stranded RNA, a sign of viral infection. 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.

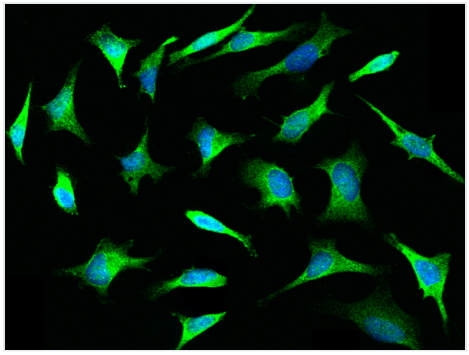
Product References and Citations for anti-TLR3 antibody	Muzio M, et al.. (2000) Differential expression and regulation of toll-like receptors (TLR) in human leukocytes: selective expression of TLR3 in dendritic cells. J Immunol. 164(11): 5998-6004. Doyle S, et al.. (2002) IRF3 mediates a TLR3/TLR4-specific antiviral gene program. Immunity. 17(3): 251-63. Choe J, et al.. (2005) Crystal structure of human toll-like receptor 3 (TLR3) ectodomain. Science. 309(5734): 581-5.
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	MBS8103496 is an antibody targeting TLR3. Also known as Anti-TLR3 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-TLR3 antibody
Immunochemical staining of human TLR3 in human kidney with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



Immunohistochemistry (IHC) of anti-TLR3 antibody
Immunochemical staining of human TLR3 in human colon with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



Immunofluorescence (IF) of anti-TLR3 antibody
Immunofluorescence staining of TLR3 in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human TLR3 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.

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
NCBI Summary for TLR3	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. [provided by RefSeq, Jul 2008]
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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