TLR7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TLR7, Monoclonal Antibody
Full Product Name	TLR7 (Toll-like Receptor 7) (MaxLight 750)
Product Gene Name	anti-TLR7 antibody
Product Synonym Names	Toll-like Receptor 7
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes TLR7.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	120,922 Da
OMIM	300365
3D Structure	ModBase 3D Structure for Q9NYK1
Immunogen	TLR7 (NP_057646, 27aa-126aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ARWFPKTLPCDVTLDVPKNHVIVDCTDKHLTEIPGGIPTNTTNLTLTINHIPDISPASFHRLDHLVEIDFRCNCVPIPLGSKNNMCIKRLQIKPRSFSGL
Conjugate	MaxLight750
Product Categories/Family for anti-TLR7 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-TLR7 antibody	Western Blot (WB)
Application Notes for anti-TLR7 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-TLR7 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 gene is predominantly expressed in lung, placenta, and spleen, and lies in close proximity to another family member, TLR8, on chromosome X. [provided by RefSeq]
Other Notes	Small volumes of anti-TLR7 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 TLR7 purchase	MBS6241086 is an antibody targeting TLR7. Also known as TLR7 (Toll-like Receptor 7) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR7. It may not necessarily be applicable to this product.

NCBI GI #	7706093
NCBI GeneID	51284
NCBI Accession #	NP_057646
UniProt Primary Accession #	Q9NYK1
UniProt Secondary Accession #	Q9NR98; D1CS69
UniProt Related Accession #	Q9NYK1
GenBank Nucleotide #	NM_016562.3
NCBI Official Full Name	toll-like receptor 7
NCBI Official Synonym Full Names	toll like receptor 7
NCBI Official Symbol	TLR7
NCBI Official Synonym Symbols	TLR7-like
UniProt Protein Name	Toll-like receptor 7
Protein Family	Toll-like receptor
UniProt Gene Name	TLR7
UniProt Entry Name	TLR7_HUMAN
NCBI Protein Information	toll-like receptor 7
Research Articles on TLR7	**1.** Data suggest a central role of XBP1 in TLR7-induced IFNalpha production and identify XBP1 as a potential novel therapeutic target in IFNalpha-driven autoimmune and inflammatory diseases.
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