

DATASHEET

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Toll-Like Receptor 7 (TLR7) Antibody

Catalogue No.:abx117019

Swiss Prot:

Q9NYK1

TLR7 Antibody is a Rabbit Polyclonal antibody against TLR7. Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in Drosophila, play a pivotal role in innate immune responsesTLRs recognize conserved motifs found in various pathogens and mediate defense responsesTriggering of the TLR pathway leads to the activation of NF-kB and subsequent regulation of immune and inflammatory genesThe TLRs and members of the IL-1 receptor family share a conserved stretch of approximately 200 amino acids known as the TIR domainUpon activation, TLRs associate with a number of cytoplasmic adaptor proteins containing TIR domains including MyD88 (myeloid differentiation factor), MAL/TIRAP (MyD88-adaptor-like/TIR-associated protein), TRIF (Toll-receptor-associated activator of interferon), and TRAM (Toll-receptor-associated molecule)This association leads to the recruitment and activation of IRAK1 and IRAK4, which form a complex with TRAF6 to activate TAK1 and IKKActivation of IKK leads to the degradation of IkB that normally maintains NF-kB inactivity by sequestering it in the cytoplasmTLR7, 8 and 9 form a group of structurally related TLR family members that are are localized to intracellular endosomesTLR7 shows highest expression in lung, placenta, and spleenTLR7 mediates responses to a class of synthetic compounds, including imidazoquinolines, guanosine-based drugs that induce anti-viral responsesNaturally, TLR7 responds to ssRNA viruses to activate NF-kB and trigger IFN production.

Target:	TLR7
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Tested Applications:	ELISA, WB, IHC
Recommended dilutions:	WB: 1/500 - 1/2000, IHC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user.
Immunogen:	Recombinant protein of human TLR7.
Purification:	Affinity Chromatography.
Form:	Liquid
Isotype:	IgG
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.



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GenelD: <u>51284</u>

Gene Symbol: TLR7

Buffer: PBS, pH7.3, containing 0.02% sodium azide and 50% Glycerol.

Note: This product is for research use only.