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Datasheet for 200-401-A64

TLR7 Antibody

Overview

Description:	Anti-TLR7 (RABBIT) Antibody - 200-401-A64
Item No.:	200-401-A64
Size:	100 µg
Applications:	ELISA, IHC, WB, IF
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Toll-like receptors (TLRs) are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. These proteins act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors. TLR7, like TLRs 3, 8, and 9, is localized in intracellular acidic compartments such as the phagolysosome and will recognize some single-stranded RNA viruses such as vesicular stomatitis virus (VSV) and influenza virus. Activation of TLR7 by VSV results in stimulation of the immune response including IFN secretion, suggesting the importance of TLR7 in virus recognition. Anti-TLR7 antibody is ideal for investigators involved in kinases, phosphatase, cytokines, growth factors and transcription factor research.
Synonyms:	PRO285 antibody, Toll like receptor 7 antibody, UNQ248 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Tlr7
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	TLR7 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to an internal region of mouse TLR7.

Purity/Specificity:	Anti-TLR7 Antibody was purified from monospecific antiserum. This product is affinity chromatography purified via peptide column. A BLAST analysis was used to suggest cross-reactivity with TLR7 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with TLR7 from other sources has not been determined.
Relevant Links:	• UniProtKB - P58681 • NCBI - 18875360 • GeneID - 170743

Application Details

Tested Applications:	ELISA, IHC, WB
Suggested Applications:	IF (Based on references)
Application Note:	TLR7 Antibody has been tested for use in ELISA, immunocytochemistry, and western blotting. Expect a band at ~121 kDa in size corresponding to TLR7 by western blotting in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
WB:	1 -2 µg/ml

Formulation

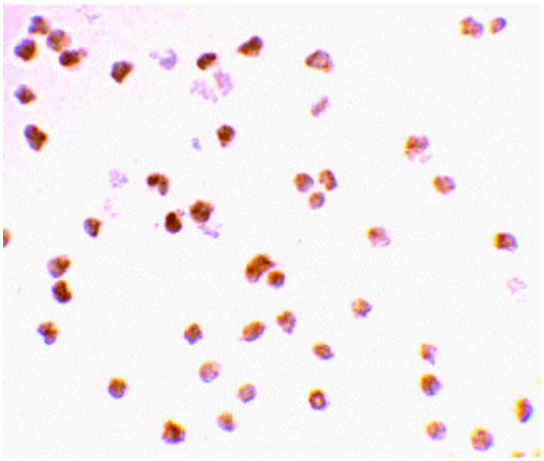
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

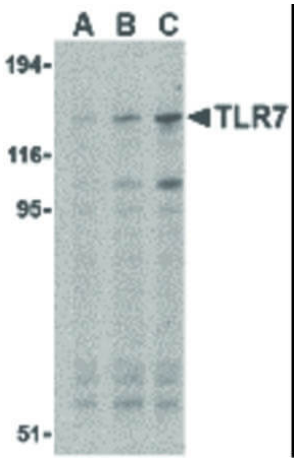
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunocytochemistry of Rabbit Anti-TRL Antibody. Tissue: Daudi Cells. Primary Antibody: Anti-TRL7 at 2µg/mL.



Western Blot
Western Blot of Rabbit Anti-TRL7 Antibody. Primary Antibody: Anti-TRL7 probed at concentration Lane A: 0.5µg/mL; Lane B: 1.0µg/mL Daudi cell lysates; Lane C: 2.0µg/mL in Daudi cell lysates.

References

- Sauter MM et al. Toll-like receptors 4, 5, 6 and 7 are constitutively expressed in non-human primate retinal neurons. *J Neuroimmunol.* (2018)

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