

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 γ 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](#)
- [GenelD - 170743](#)

Application Details

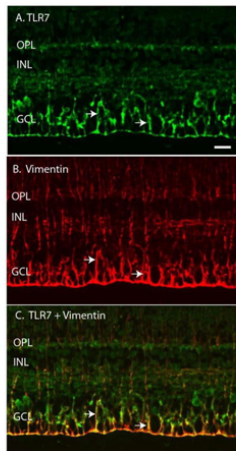
Tested Applications:	ELISA, IHC, WB
Suggested Applications:	IF (Based on references)
Application Note:	TLR7 Antibody has been tested for use in ELISA, immunocytochemistry, and western blotting. Expect a band at ~121 kDa in size corresponding to TLR7 by western blotting in the appropriate cell lysate 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

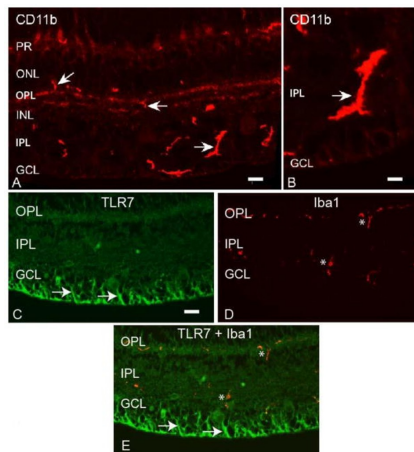
Shipping & Handling

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.



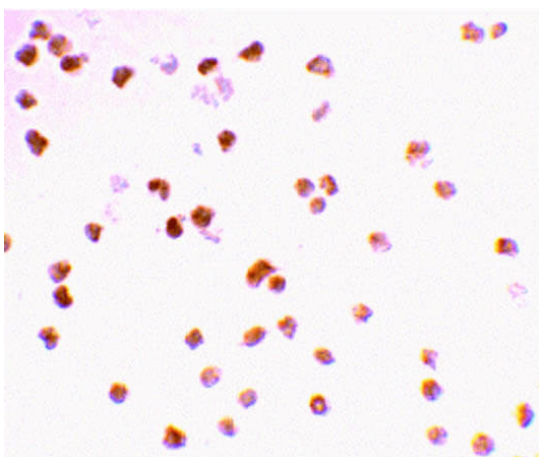
Immunofluorescence Microscopy

A) Arrows indicate TLR7 staining of filamentous retinal cells. B) Arrows indicate vimentin staining of Muller cells. C) Merged image with arrows indicating co-localization of TLR7 and vimentin positive cells. Outer plexiform layer (OPL), inner nuclear layer (INL), ganglion cell layer (GCL). Scale bar= 20 μm. (TLR7 p/n 200-401-A64 at 1:100). Fig 4 PMID: 29954626.



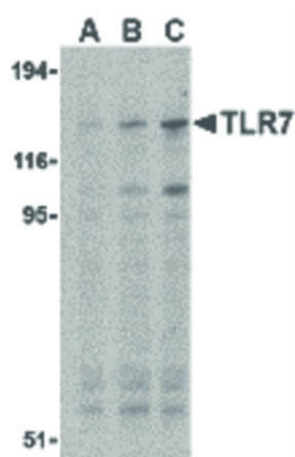
Immunofluorescence Microscopy

(A, B) Arrows indicate CD11b staining of microglial cells in macaque retina. Autofluorescence is present in the photoreceptor layer in panel A. C) Arrows indicates TLR7 positive retinal cells. D) Asterisks indicate Iba 1 staining of retinal microglial cells. E) Merged image indicates no co-localization of TLR7 and Iba 1 staining. Photoreceptors (PR), outer nuclear layer (ONL), outer plexiform layer (OPL), inner nuclear layer (INL), inner plexiform layer (IPL), ganglion cell layer (GCL). Scale bar= 20 μm. (TLR7 p/n 200-401-A64 at 1:100). Fig 9. PMID: 29954626.



Immunohistochemistry

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



Western Blot

Western Blot of Rabbit Anti-TLR7 Antibody. Primary Antibody: Anti-TLR7 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)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.