

Datasheet for 600-401-957**TLR4 Antibody****Overview**

Description:	Anti-TLR4 (RABBIT) Antibody - 600-401-957
Item No.:	600-401-957
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	TLR4 (Toll-Like Receptor 4). 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 (1-3). These proteins act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors such as Protein Kinase C (PKC) alpha/beta and NF-kB (4-6). Studies with TLR4-deficient mice indicate that the main ligand for TLR is lipopolysaccharide. Consequently, these mice also showed increased susceptibility to Gram-negative sepsis (7).
Synonyms:	ARMD10 antibody, CD284 antibody, Toll (Drosophila) homolog antibody, TOLL antibody, Toll Endotoxin Hyporesponsiveness antibody, Toll like receptor 4 antibody, Toll like receptor 4 precursor antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TLR4
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of human TLR4 protein.
Purity/Specificity:	This affinity purified antibody is directed against human TLR4 protein. TLR4 is affinity chromatography purified via peptide column. A BLAST analysis was used to suggest cross-reactivity with TLR4 protein from human sources based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 19924149 • UniProtKB - O00206 • GeneID - 7099

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry, immunocytochemistry, immunofluorescence, and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 96 kDa in size corresponding to TLR4 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1:200 - 1:500

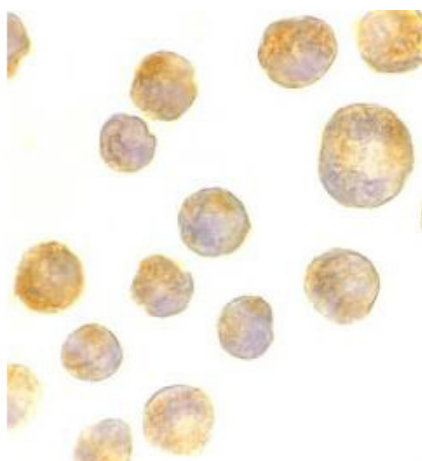
Formulation

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

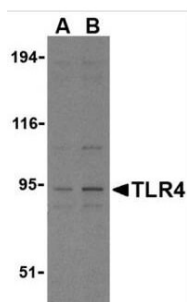
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

Immunohistochemistry of Rabbit Anti-TLR4 Antibody.
 Tissue: K562 cells. Fixation: paraformaldehyde fixed.
 Antigen retrieval: not required. Primary antibody: TLR 4 antibody at 1:500 for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TLR-4 is cytoplasmic. Staining: TLR 4 as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Rabbit Anti-TLR4 Antibody. Lane 1: PC-3 whole cell lysate primary antibody diluted to 1:400. Lane 2: PC-3 whole cell lysate primary antibody diluted to 1:200. Load: 10 µg per lane. Primary antibody: TLR4 antibody overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 96 kDa, ~94 kDa for TLR 4. Other band(s): none.

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.