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Datasheet for 600-401-G52

TLR4 Antibody

Overview

Description:	Anti-TLR4 (RABBIT) Antibody - 600-401-G52
Item No.:	600-401-G52
Size:	100 µg
Applications:	FC, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The Toll-like receptor (TLR) family in mammal comprises a family of trans-membrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and 1L-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules. The TLR family is a phylo-genetically conserved mediator of innate immunity that is essential for microbial recognition. Ten human homologs of TLRs (TLR1-10) have been described. Amount this family of receptors, TLR2 and TLR4 have been most studied. These studies have suggested that TLR2 and TLR4 may serve as potential main mediators of LPS signaling. The mouse TLR4 cDNA codes for a protein consisting of 839 amino acids, with an approximate molecular weight of 90kDa.
Synonyms:	ARMD10, CD284, TLR 4, TOLL, Toll like receptor 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TLR4
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	TRL4 Antibody was produced from whole rabbit serum prepared by repeated immunizations raised against synthetic peptide corresponding to an internal region of human TLR4.

Purity/Specificity:	Anti-TLR4 Antibody was purified by affinity chromatography. A BLAST analysis was used to suggest cross-reactivity with TRL 4 from Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with TRL4 from other sources has not been determined. Cell Signaling research.
Relevant Links:	• NCBI - NP_612564.1 • GeneID - 7099 • UniProtKB - O00206

Application Details

Tested Applications:	FC, IF, IHC, WB
Application Note:	Anti-TLR4 Antibody has been tested in WB, IHC, IF microscopy and Flow Cytometry. Expect a band approximately ~75-80kDa when tested against partial recombinant mouse TLR4 (extra-cellular portion plus His-tag). 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.
FC:	User Optimized
IF:	User Optimized
IHC:	1:50
WB:	1-3ug/mL

Formulation

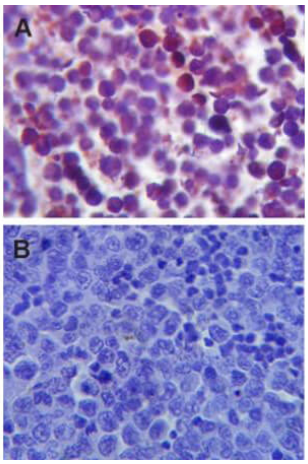
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

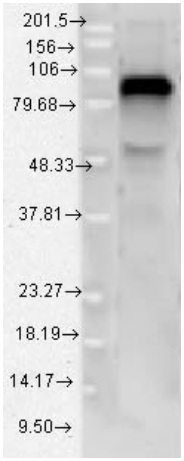
Shipping Condition:	Wet Ice

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



Immunofluorescence Microscopy
Immunohistochemistry of rabbit anti-TLR4 antibody. Tissue: Formalin-fixed paraffin-embedded mouse spleen tissue. Primary Antibody: TLR4 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase rabbit secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: TLR4 as blue/purple signal.



Western Blot
Western Blot of rabbit anti-TLR4 antibody. Lane 1: Partial Recombinant Mouse TLR4. Primary antibody: TLR4 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size:95.6kDa/75-80kD. 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.