

Datasheet for 200-401-I28**TLR5 Antibody****Overview**

Description:	Anti-TLR5 (RABBIT) Antibody - 200-401-I28
Item No.:	200-401-I28
Size:	100 µg
Applications:	FC, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background: Anti-TLR5 Antibody detects human TLR5. The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules and could constitute an important and unrecognized component of innate immunity in humans. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. TLRs characterized so far activate the MyD88/interleukin-1 receptor-associated kinase (IRAK) signaling pathway. Thirteen homologs of TLRs (TLR1-13) have been described. Toll-like receptor 5 (TLR5) expression is upregulated following exposure to bacteria or to the TLR5 agonist, flagellin. Gram-negative bacteria, stimulate monocyte/macrophage cells in a TLR5-specific, CD14-independent manner. The TLR5 receptor thus appears to be the principal means by which the innate immune system recognizes flagellated bacterial pathogens. Anti-TLR5 Antibody is ideal for investigator involved in cytokine and growth factor research.

Synonyms:	TIL3, Toll-like receptor 5, Toll/interleukin-1 receptor-like protein 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TLR5
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	TLR5 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a KLH-conjugated peptide corresponding to internal amino acids on human TLR5 protein.
Purity/Specificity:	Anti-TLR5 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TLR5 from human, rat and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TLR5 from other sources has not been determined.
Relevant Links:	• UniProtKB - O60602 • NCBI - NP_003259.2 • GeneID - 7100

Application Details

Tested Applications:	FC, IHC, WB
Application Note:	Anti-TLR5 Antibody is tested for use in WB, Flow, Flow-CS, IHC, and IHC-P. Expect a band approximately 97kDa on specific lysates. 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:	1-2 µg/10 ⁶ cells
IHC:	10 µg/mL (paraffin)
WB:	1-3 µg/mL

Formulation

Physical State:	Liquid
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:	0.05% (w/v) Sodium Azide

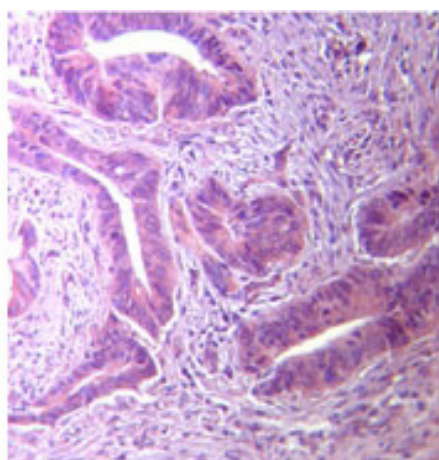
Shipping & Handling

Shipping Condition:	Dry Ice
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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

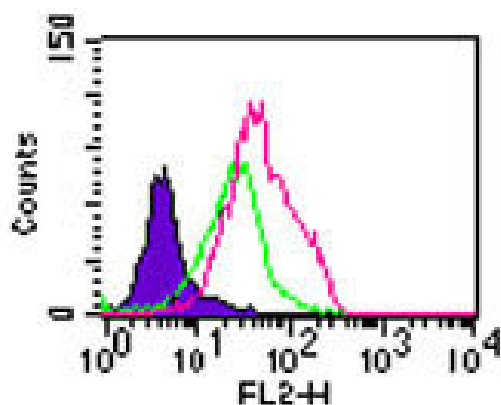
Immunohistochemistry of Rabbit Anti-TLR5 antibody.

Tissue: stomach tumor. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TLR5 antibody at 10 µg/mL for 1 h at RT.

Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT.

Localization: TLR5 is a single-pass type 1 membrane protein.

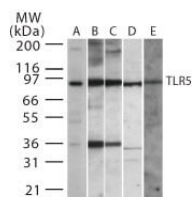
Staining: TLR5 as a precipitated red signal with hematoxylin purple nuclear counterstain.



Flow Cytometry

Flow Cytometry of Rabbit Anti-TLR5 antibody. Cells: Balb/c mouse splenocytes. Stimulation: none. Primary Antibody: TLR5 antibody at 2 µg/10⁶ cells (red) and rabbit IgG isotype control (green).

Secondary Antibody: Goat anti-rabbit PE conjugated.



Western Blot

Western Blot of Rabbit Anti-TLR5 antibody. Lane A: Ramos. Lane B: RAW. Lane C: mouse spleen. Lane D: mouse lung. Lane E: rat lung lysate. Primary antibody: TLR5 at 2 µg/mL for 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: 80 kDa for TLR5. 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.