

Datasheet for 600-401-DD7**NOTUM Antibody****Overview**

Description:	Anti-NOTUM (RABBIT) Antibody - 600-401-DD7
Item No.:	600-401-DD7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	In Drosophila, the notum gene is regulated by the Wingless pathway and encodes a secreted hydrolase that modifies heparan sulfate proteoglycans. The mammalian homolog has been shown to be able to cleave glypicans and can release GPI-anchored proteins from the mammalian cell surface. Like the Drosophila NOTUM, the mammalian protein can act as a negative regulator of the Wnt signaling pathway. NOTUM is expressed at a low level in most mammalian tissues, although it is overexpressed in a subset of human hepatocellular carcinomas. Its transcription is regulated by beta-catenin/TCF and is a target of the Wnt signaling pathway, forming a negative feedback loop that regulates the expression and activity of the Wnt pathway.
Synonyms:	NOTUM Antibody, Protein notum homolog
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NOTUM
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NOTUM antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human NOTUM.

Purity/Specificity: Anti-NOTUM Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with NOTUM from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q6P988](#)
- [GeneID - 147111](#)
- [NCBI - NP_848588](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NOTUM Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 56 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:10,000

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: 0.5-1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

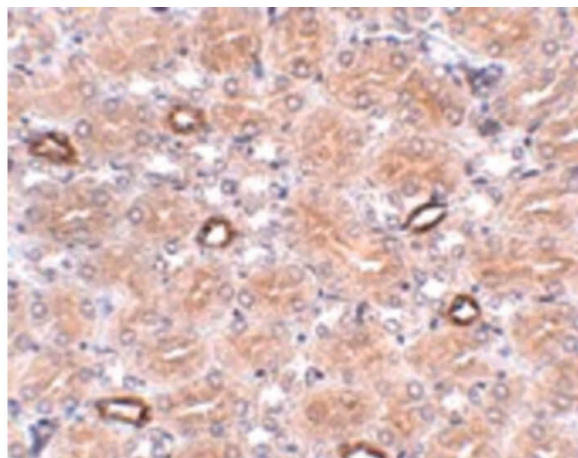
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

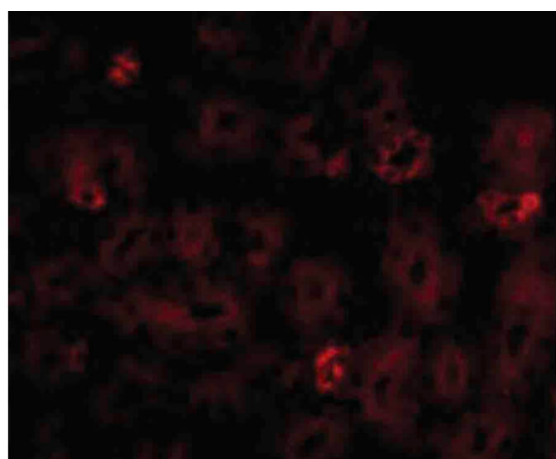
Expiration: Expiration date is one (1) year from date of receipt.

Images



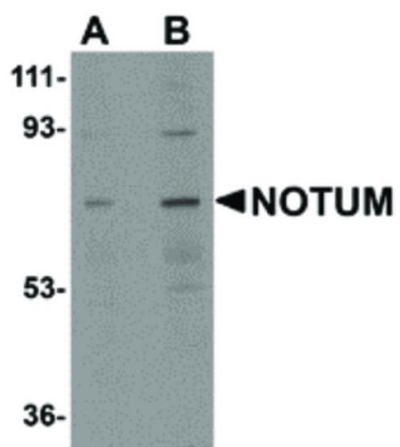
Immunohistochemistry

Immunohistochemistry of NOTUM antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NOTUM antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: NOTUM is secreted into the extracellular space. Staining: NOTUM as precipitated pink signal with purple nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of NOTUM antibody. Tissue: mouse kidney cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: NOTUM antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: NOTUM is secreted into the extracellular space. Staining: NOTUM as red fluorescent signal.



Western Blot

Western Blot of NOTUM antibody. Lane 1: human kidney tissue lysate with NOTUM antibody at 0.5 µg/mL. Lane 2: human kidney tissue lysate with NOTUM antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 56 kDa, 70 kDa for NOTUM. Other band(s): NOTUM splice variants and isoforms.

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.