

Datasheet for 600-401-DB0**NIBRIN Antibody****Overview**

Description:	Anti-NIBRIN (RABBIT) Antibody - 600-401-DB0
Item No.:	600-401-DB0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NIBRIN (NBN) is a member of the double-strand break repair complex MRE11/RAD50/NBN (MRN) which is involved in DNA double-strand break repair, DNA damage-induced checkpoint activation and plays a critical role in the maintenance of chromosome integrity. NIBRIN contains two modules found in cell cycle checkpoint proteins, a forkhead-associated domain adjacent to a breast cancer carboxy-terminal domain. Mutations in this gene are associated with Nijmegen breakage syndrome and maybe the cause of cancer predisposition and aplastic anemia.
Synonyms:	NIBRIN Antibody, ATV, NBS, P95, NBS1, AT-V1, AT-V2, Nibrin, Cell cycle regulatory protein p95
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NBN
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NIBRIN antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the N-terminus of human NIBRIN.

Purity/Specificity: Anti-NIBRIN Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three alternatively spliced transcript isoforms of NIBRIN are known to exist.

Relevant Links:

- [UniProtKB - O60934](#)
- [GeneID - 4683](#)
- [NCBI - NP_002476](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NIBRIN 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 85 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: 1:10,000 - 1:20,000

IF: 5 µg/mL

IHC: 2.5 µg/mL

WB: 1-2 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

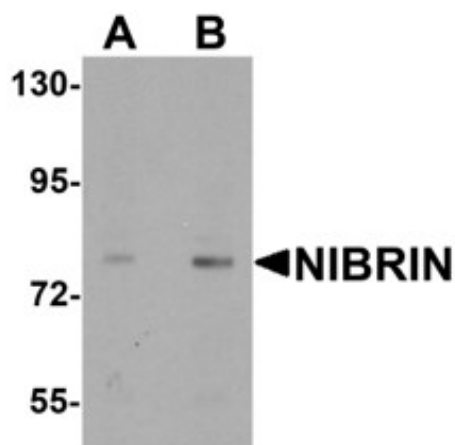
Shipping Condition: Dry Ice

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

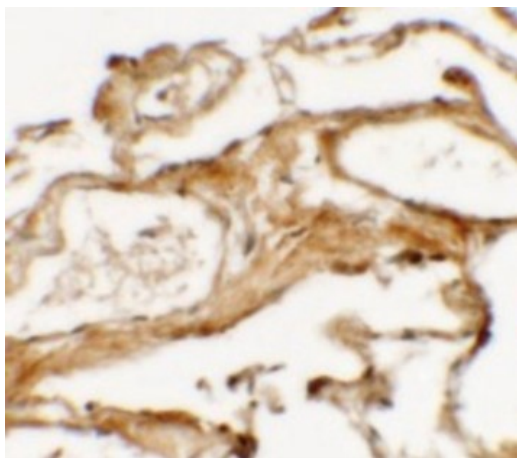


Western Blot

Western blot analysis of NIBRIN.

Load: rat lung tissue lysate.

Primary Antibody: NIBRIN antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.

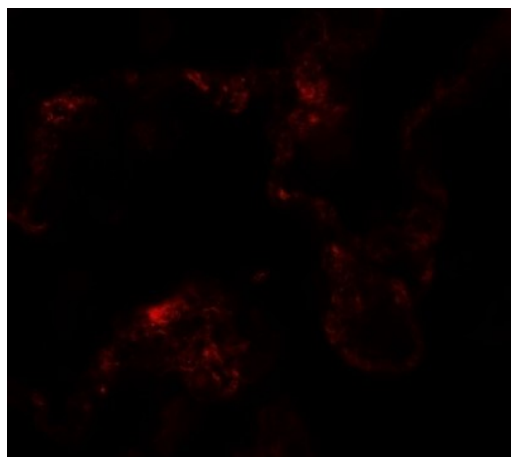


Immunohistochemistry

Immunohistochemistry of NIBRIN (NT).

Tissue: human lung tissue.

Primary Antibody: NIBRIN (NT) antibody at 2.5 $\mu\text{g/mL}$.

**Immunofluorescence Microscopy**

Immunofluorescence of NIBRIN.

Tissue: human lung tissue.

Primary Antibody: NIBRIN antibody at 20 µg/mL.

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.