

Datasheet for 600-401-DC2**NKX2-1 Antibody****Overview**

Description:	Anti-NKX2-1 (RABBIT) Antibody - 600-401-DC2
Item No.:	600-401-DC2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NKX2-1 (NK2 homeobox 1) has been identified as a thyroid-specific transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin and thyrotropin receptor. NKX2-1 is crucial in the maintenance of the thyroid differentiation phenotype and morphogenesis. It contains one homeobox DNA-binding domain. NKX2-1 also may play a role in lung development and surfactant homeostasis. Mutations and deletions in this gene are associated with benign hereditary chorea, congenital hypothyroidism, neonatal respiratory distress, and may be associated with thyroid cancer. NKX2-1 has been suggested to be a candidate suppressor of malignant progression.
Synonyms:	NKX2-1 Antibody, BCH, BHC, NK-2, TEBP, TTF1, NKX2A, TITF1, TTF-1, NKX2.1, Homeobox protein NK-2 homolog A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NKX2-1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NKX2-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the N-terminus of human NKX2-1.

Purity/Specificity: Anti-NKX2-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. NKX2-1 antibody is predicted to not cross-react with other NK2 homeobox family members. At least three isoforms of NKX2-1 are known to exist; this antibody will detect all three.

Relevant Links:

- [UniProtKB - P43699](#)
- [GeneID - 7080](#)
- [NCBI - P43699](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NKX2-1 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 39 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: 20 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

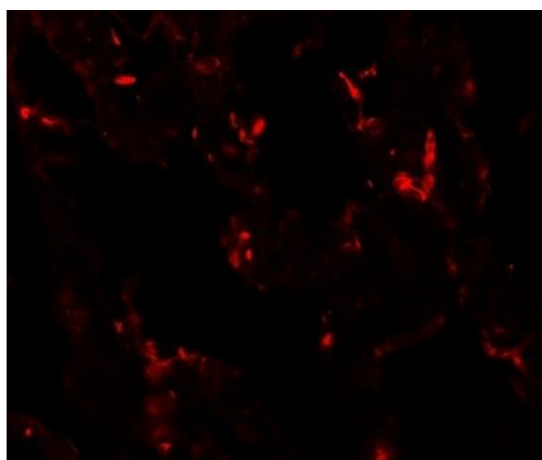
Shipping & Handling

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

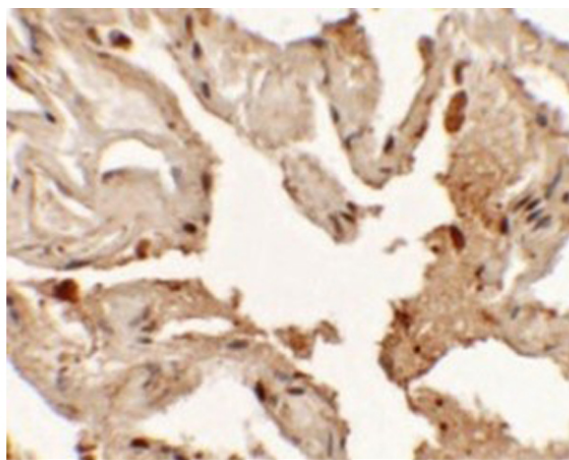


Immunofluorescence Microscopy

Immunofluorescence of NKX2-1.

Tissue: human lung tissue.

Primary Antibody: NKX2-1 antibody at 20 µg/mL.

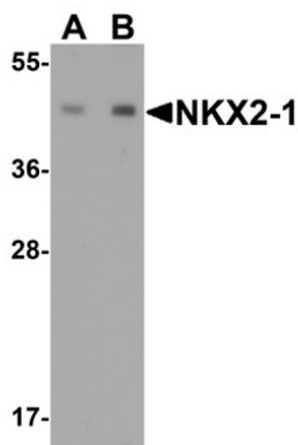


Immunohistochemistry

Immunohistochemistry of NKX2-1.

Tissue: human lung tissue.

Primary Antibody: NKX2-1 antibody at 2.5 µg/mL.

**Western Blot**

Western blot analysis of NKX2-1.

Load: human lung tissue lysate.

Primary Antibody: NKX2-1 antibody at (A) 0.25 and (B) 0.5 μ g/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.