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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

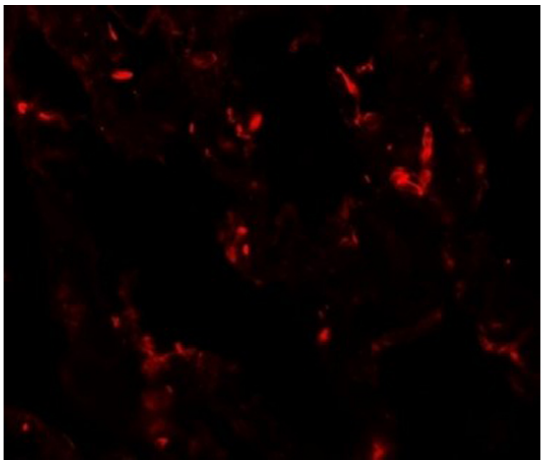
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

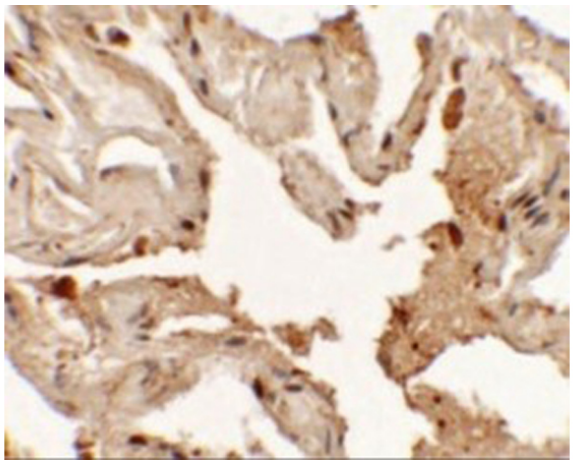
Shipping Condition:	Dry Ice

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.

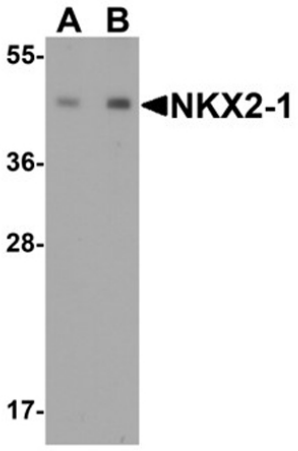
Images



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 µg/ml.

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