

Datasheet for 600-401-DC3**NKX2-2 Antibody****Overview**

Description:	Anti-NKX2-2 (RABBIT) Antibody - 600-401-DC3
Item No.:	600-401-DC3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NKX2-2 (NK2 homeobox 2) is a member of a family of transcription factors that are involved in embryonic development and cell fate. NKX2-2 is crucial in the development of pancreatic islet cell differentiation and activates the ghrelin-promoter in these cells. NKX2-2 is expressed at the onset of pancreatic epithelium formation and becomes restricted to mature a-, b- and PP cells, and in NKX2-2-null mice embryos, all b-cells and most a-cells are replaced by ghrelin-positive cells. NKX2-2 is also thought to be involved in ventral neuronal patterning and floor plate development and commissural axon guidance.
Synonyms:	NKX2-2 Antibody, NKX2B, NKX2.2, NKX2B, Homeobox protein NK-2 homolog B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NKX2-2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NKX2-2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human NKX2-2.

Purity/Specificity: Anti-NKX2-2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. NKX2-2 antibody is predicted to not cross-react with other NK2 homeobox family members.

Relevant Links:

- [UniProtKB - O95096](#)
- [GeneID - 4821](#)
- [NCBI - NP_002500](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NKX2-2 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 30 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

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

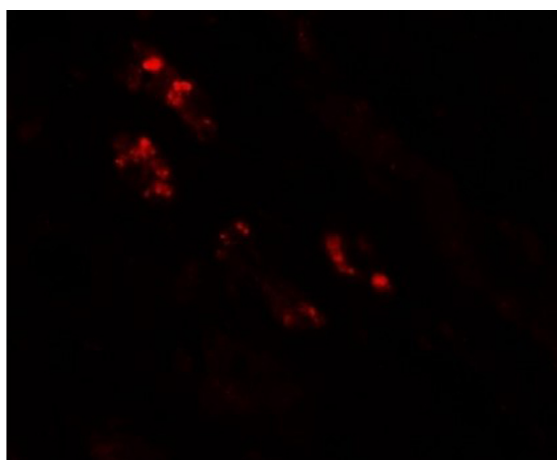
Shipping & Handling

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.

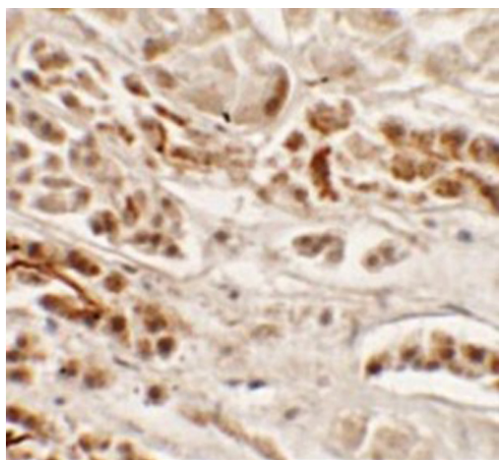
Expiration: Expiration date is one (1) year from date of receipt.

Images



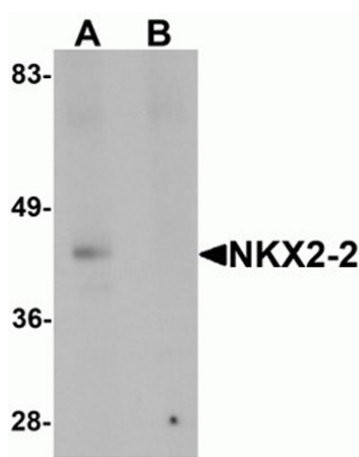
Immunofluorescence Microscopy

Immunofluorescence of NKX2-2. Tissue: human kidney tissue. Primary Antibody: NKX2-2 antibody at 20 µg/mL.



Immunohistochemistry

Immunohistochemistry of NKX2-2.
Tissue: human kidney tissue.
Primary Antibody: NKX2-2 antibody at 2.5 µg/mL.

**Western Blot**

Western blot analysis of NKX2-2.

Load: rat kidney tissue lysate.

Primary Antibody: NKX2-2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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.