

Datasheet for 600-401-DD8**NOX1 Antibody****Overview**

Description:	Anti-NOX1 (RABBIT) Antibody - 600-401-DD8
Item No.:	600-401-DD8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Voltage-gated proton (hydrogen) channels play an important role in cellular defense against acidic stress (1). NOX1 is a homolog of the catalytic subunit of the superoxide-generating NADPH oxidase of phagocytes, gp91phox (1). Three splice variants of NOX1 have been identified, NOH-1L, NOH-1S and NOH-1Lv (2). NOH-1S is a voltage-gated proton channel that participates in the regulation of cellular pH and is blocked by zinc. NOH-1L is a pyridine nucleotide-dependent oxidoreductase that generates superoxide and might conduct H(+) ions as part of its electron transport mechanism, whereas NOH-1S does not contain an electron transport chain (1-3). NOX1 have the potential to be effective treatments for a range of ischemic diseases (4).
Synonyms:	NOX1 Antibody, MOX1, NOH1, NOH-1, GP91-2, MOX1, NADPH oxidase 1, Mitogenic oxidase 1, NOX-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NOX1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NOX1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the internal region of human NOX1.

Purity/Specificity: Anti-NOX1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. NOX1 antibody is human specific.

Relevant Links:

- [UniProtKB - Q9Y5S8](#)
- [GeneID - 27035](#)
- [NCBI - NP_008983](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NOX1 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 65 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: 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

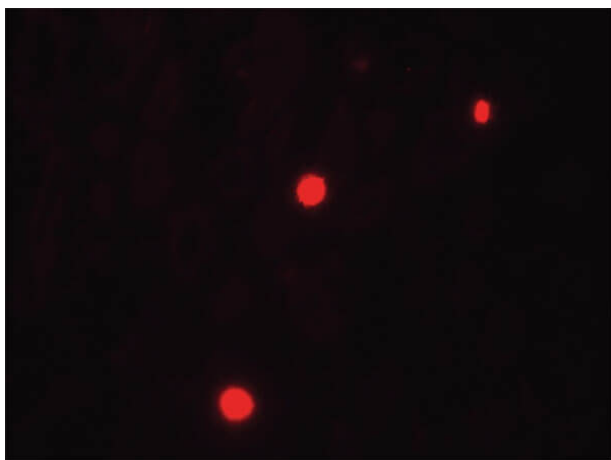
Shipping & Handling

Shipping Condition: Dry Ice

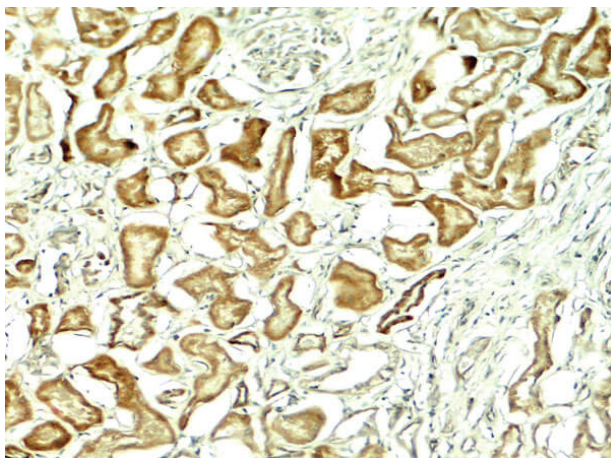
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

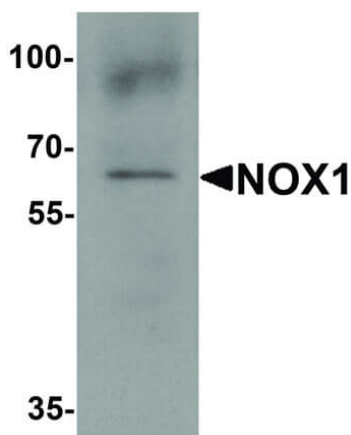
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Rabbit anti-NOX1 antibody. Tissue: human kidney. Primary antibody: NOX1 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: NOX1 is located on the membrane. Staining: NOX1 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of Rabbit anti-NOX1 antibody. Tissue: human kidney. Primary antibody: NOX1 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: NOX1 is located on the membrane. Staining: NOX1 as precipitated brown signal.

**Western Blot**

Western Blot of Rabbit anti-NOX1 antibody. Lane A: 293 cell lysate. Primary antibody: NOX1 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 62 kDa, 64 kDa for NOX1.

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.