

Datasheet for 600-401-DE0**NOX3 Antibody****Overview**

Description:	Anti-NOX3 (RABBIT) Antibody - 600-401-DE0
Item No.:	600-401-DE0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The NOX family of NADPH oxidases is comprised of seven transmembrane proteins that oxidize intracellular NADPH/NADH, causing electron transport across the membrane and the reduction of molecular oxygen to superoxide (1). NOX3 is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otolith (2,3). It has been suggested that NOX3 is activated by the Transient Receptor Potential Vanilloid 1 (TRPV1), and this activity causes increased levels of reactive oxygen species in the inner ear, which in turn leads to STAT1-mediated inflammation and hearing loss (4).
Synonyms:	NADPH oxidase 3, NOX-3, GP91-3, MOX2, MOX-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NOX3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NOX3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the N-terminus of human NOX3.

Purity/Specificity: Anti-NOX3 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. NOX3 antibody is human and mouse reactive. NOX3 is predicted to not cross-react with other NOX proteins.

Relevant Links:

- [UniProtKB - Q9HBY0](#)
- [GeneID - 50508](#)
- [NCBI - NP_056533](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-NOX3 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

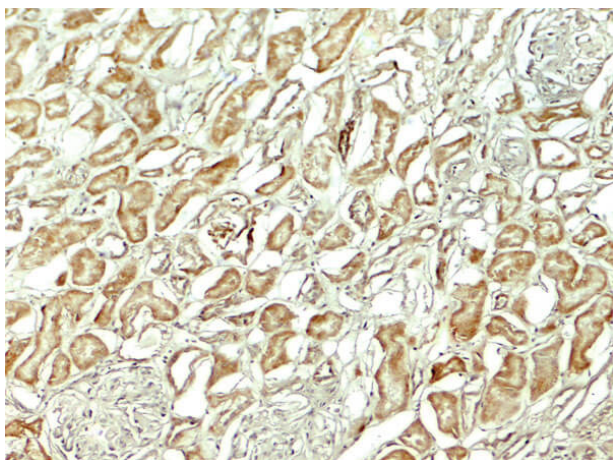
Shipping & Handling

Shipping Condition: Dry Ice

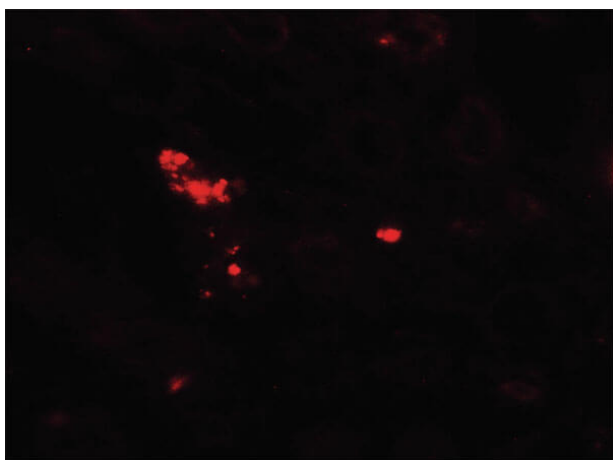
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Expiration:

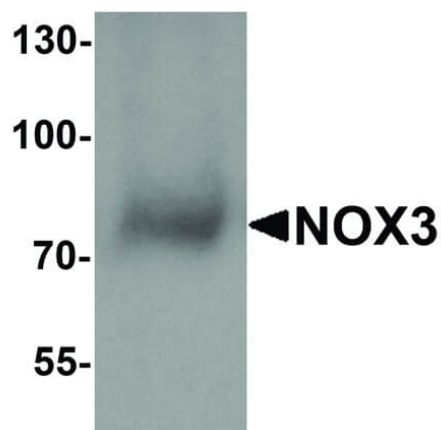
Expiration date is one (1) year from date of receipt.

Images**Immunohistochemistry**

Immunohistochemistry of Rabbit anti-NOX3 antibody.
Tissue: human kidney. Primary antibody: NOX3 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: NOX3 is located on the membrane. Staining: NOX3 as precipitated brown signal.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Rabbit anti-NOX3 antibody. Tissue: human kidney. Primary antibody: NOX3 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: NOX3 is located on the membrane. Staining: NOX3 as red fluorescent signal.

**Western Blot**

Western Blot results of Rabbit Anti-NOX3 Antibody. Lane A: HEK293 whole cell lysate. Primary antibody: NOX3 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 72 kDa for NOX3.

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.