

Datasheet for ABIN657946

**anti-NADPH Oxidase 4 antibody (N-Term)**

3 Images

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## Overview

Quantity:	400 µL
Target:	NADPH Oxidase 4 (NOX4)
Binding Specificity:	AA 124-153, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This NOX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 124-153 amino acids from the N-terminal region of human NOX4.
Clone:	RB34043
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	NOX4 ( <a href="#">NOX4 Products</a> )
Background:	This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various

## Target Details

reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.

Molecular Weight: 66932

Gene ID: 50507

NCBI Accession: [NP\\_001137308](#), [NP\\_058627](#)

UniProt: [Q9NPH5](#)

Pathways: [Carbohydrate Homeostasis](#), [Smooth Muscle Cell Migration](#)

## Application Details

Application Notes: WB: 1:2000. WB: 1:2000. IHC-P: 1:10~50

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

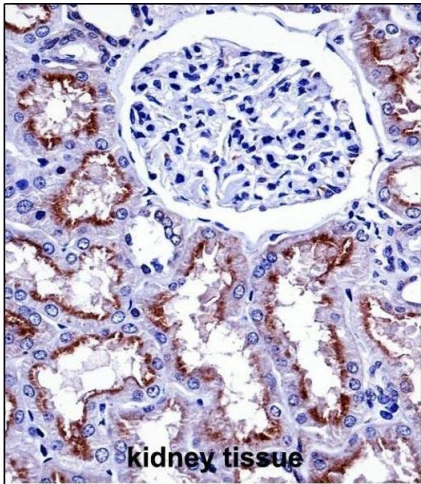
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

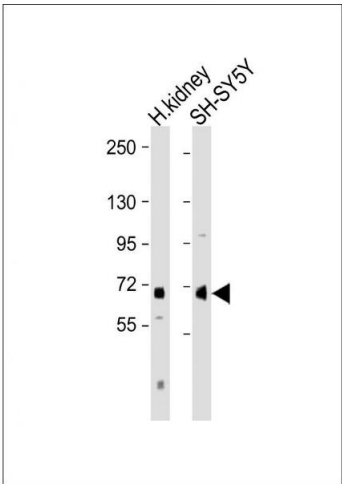
Storage Comment: NOX4 Antibody (N-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.

Expiry Date: 6 months



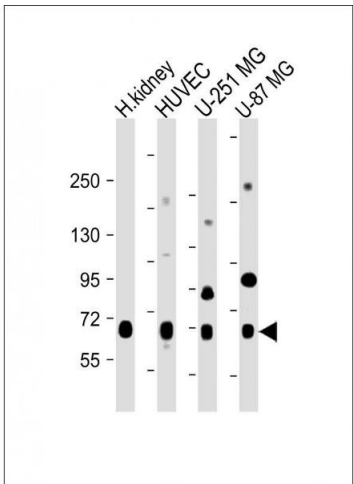
#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** NOX4 Antibody (N-term) ((ABIN657946 and ABIN2846890))immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NOX4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



#### Western Blotting

**Image 2.** All lanes : Anti-NOX4 Antibody (N-term) at 1:2000 dilution Lane 1: Human kidney lysate Lane 2: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



#### Western Blotting

**Image 3.** All lanes : Anti-NOX4 Antibody (N-term) at 1:2000 dilution Lane 1: Human kidney lysate Lane 2: HUVEC whole cell lysate Lane 3: U-251 MG whole cell lysate Lane 4: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.