

Datasheet for ABIN3031935

anti-NADPH Oxidase 4 antibody (C-Term)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	NADPH Oxidase 4 (NOX4)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NADPH Oxidase 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	An amino acid sequence from the C-terminus of mouse NADPH oxidase 4 (NRNNSYGTKFEYNKES) was used as the immunogen for this NOX4 antibody (100% rat homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	NOX4 (NOX4 Products)
Background:	NADPH oxidase 4, also called Renal NADPH oxidase or RENOX, is an enzyme that in humans is encoded by the NOX4 gene, and a member of the NOX family of NADPH oxidases. Geiszt et

Target Details

al.(2000) stated that the nucleotide sequence of NOX4 matches that found in a genomic clone on chromosome 15. In a note added in proof, they stated that genomic clones assigned to chromosome 11 also contain sequence corresponding to NADPH Oxidase 4. By FISH, Shiose et al.(2001) mapped the gene to chromosome 11q14.2-q21. Geiszt et al.(2000) found that NIH 3T3 fibroblasts overexpressing the transfected protein showed increased production of superoxide and developed signs of cellular senescence. They suggested that NOX4, as a renal source of ROS, may fulfill the function of the putative oxygen sensor in the kidney. By biochemical analysis of endogenous renal NOX4, Shiose et al.(2001) determined that the enzyme can use either NADH or NADPH as an electron donor for superoxide production.

UniProt: [Q9JH18](#)

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

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the NOX4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

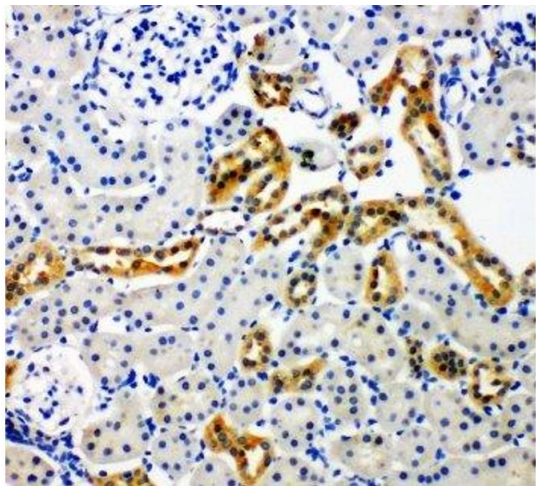
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

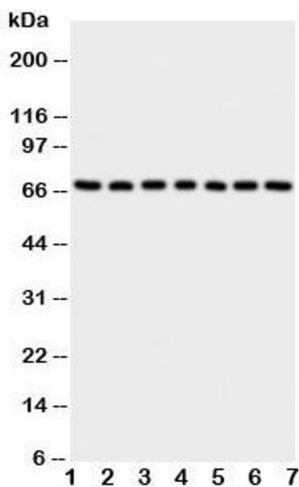
Storage: -20 °C

Storage Comment: After reconstitution, the NOX4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



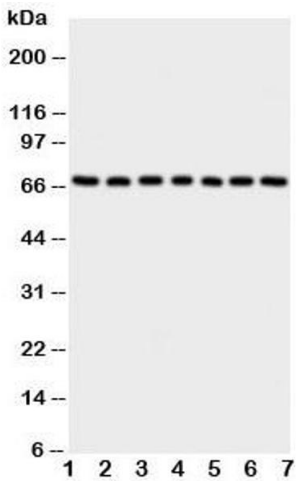
Immunohistochemistry

Image 1. IHC-P: NOX4 antibody testing of rat kidney tissue



Western Blotting

Image 2. Western blot testing of NOX4 antibody and Lane 1: rat kidney; 2: (r) heart; 3: (r) spleen; 4: human HeLa; 5: (h) 293T; 6: (h) MCF-7; 7: (h) SMMC-7721 cell lysate. Expected/observed size ~67KD



Western Blotting

Image 3. Western blot testing of NOX4 antibody and Lane 1: rat kidney