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## anti-NOX1 antibody (Middle Region)

2 Images



**Publications** 



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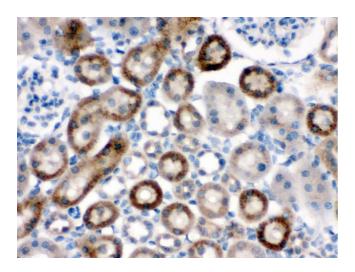
Quantity:	100 μg
Target:	NOX1
Binding Specificity:	AA 417-431, Middle Region
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for NADPH oxidase 1(NOX1) detection. Tested with WB, IHC-P in Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of rat NOX1(417-431aa WYKFQRAHNKLKTQK), different from the related mouse sequence by one amino acid.
Sequence:	WYKFQRAHNK LKTQK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for NADPH oxidase 1(NOX1) detection. Tested with WB, IHC-P in Mouse,Rat.  Gene Name: NADPH oxidase 1  Protein Name: NADPH oxidase 1(NOX-1)
Purification:	Immunogen affinity purified.

## **Target Details**

Target:	NOX1
Alternative Name:	NOX1 (NOX1 Products)
Background:	NOX1(NADPH OXIDASE 1), also known as NOH1, MOX1 or GP91-2, is an enzyme that in
	humans is encoded by the NOX1 gene. It is also a homolog of the catalytic subunit of the
	superoxide-generating NADPH oxidase of phagocytes, gp91phox. The NOX1 gene is mapped to
	Xq22.1. NOX1 was expressed in colon, prostate, uterus, and vascular smooth muscle, but not in
	peripheral blood leukocytes. The deduced 564-amino acid NOX1 protein, which is 58 % identical
	to CYBB, contains 6 membrane-spanning regions, conserved flavin and pyridine nucleotide-
	binding sites, and histidines possibly involved in heme ligation. Overexpression of MOX1 in NIH
	3T3 cells increased superoxide generation and cell growth. Cells expressing MOX1 had a
	transformed appearance, showed anchorage-independent growth, and produced tumors in
	athymic mice. Disruption of either Nox1 or Nox2 significantly delayed progression of motor
	neuron disease in these mice. However, 50 % survival rates were enhanced significantly more
	by Nox2 deletion than Nox1 deletion.
	Synonyms: GP91 2 antibody Mitogenic oxidase(pyridine nucleotide dependent superoxide
	generating) antibody Mitogenic oxidase 1 antibody MOX-1 antibody MOX1
	antibody NADH/NADPH mitogenic oxidase subunit P65 MOX antibody NADH/NADPH
	mitogenic oxidase subunit P65-MOX antibody NADPH oxidase 1 antibody NADPH oxidase 1
	variant NOH 1L antibody NADPH oxidase homolog 1 antibody NOH 1 antibody NOH-1
	antibody NOH1 antibody NOX-1 antibody Nox1 antibody NOX1_HUMAN antibody RP1 146H21.7 antibody
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, Proton Transport
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Mouse, Rat
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Rat, Predicted Species: Mouse, Epitope
	Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is
	required for the staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).

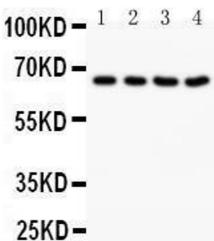
## **Application Details**

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.  It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months
Publications	
Product cited in:	Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell
	subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal
	antibodies." in: The journal of histochemistry and cytochemistry : official journal of the
	Histochemistry Society, Vol. 43, Issue 3, pp. 313-20, (1995) (PubMed).



#### **Immunohistochemistry**

**Image 1.** Anti-NOX1 antibody, HC(P) HC(P): Rat Kidney Tissue



#### **Western Blotting**

Image 2. Anti-NOX1 antibody, Western blotting Lane 1: Rat Heart Tissue Lysate Lane 2: Rat Brain Tissue Lysate Lane 3: Mouse Heart Tissue Lysate Lane 4: Mouse Heart Tissue Lysate