



Datasheet for ABIN702580
anti-NOX1 antibody (AA 425-515)



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Overview

Quantity:	100 µL
Target:	NOX1
Binding Specificity:	AA 425-515
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOX1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Nox1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	NOX1
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Target Details

Alternative Name:	Nox1/NADPH oxidase 1 (NOX1 Products)
Background:	<p>Synonyms: MOX1, NOH1, NOH-1, GP91-2, NADPH oxidase 1, NOX-1, Mitogenic oxidase 1, MOX-1, NADH/NADPH mitogenic oxidase subunit P65-MOX, NOX1</p> <p>Background: NOH-1S is a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes and other tissues. It 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.</p>
Gene ID:	27035
UniProt:	Q9Y5S8
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones , Proton Transport

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

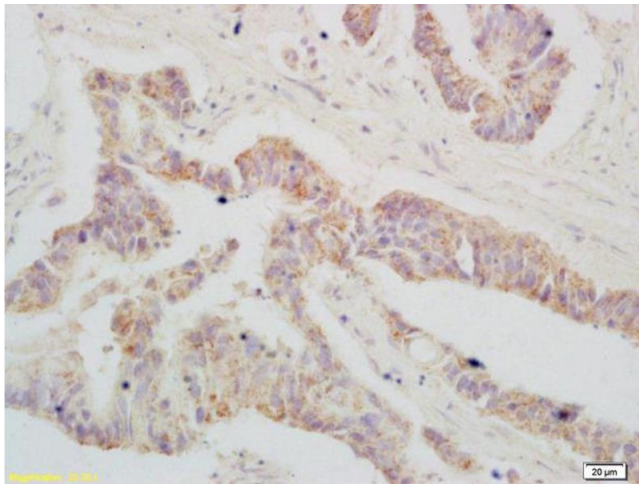
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Publications

Product cited in: Yun, Gao, Yue, Guo, Li, Sang: "Sulfate Aerosols Promote Lung Cancer Metastasis by Epigenetically Regulating the Epithelial-to-Mesenchymal Transition (EMT)." in: **Environmental science & technology**, Vol. 51, Issue 19, pp. 11401-11411, (2018) ([PubMed](#)).

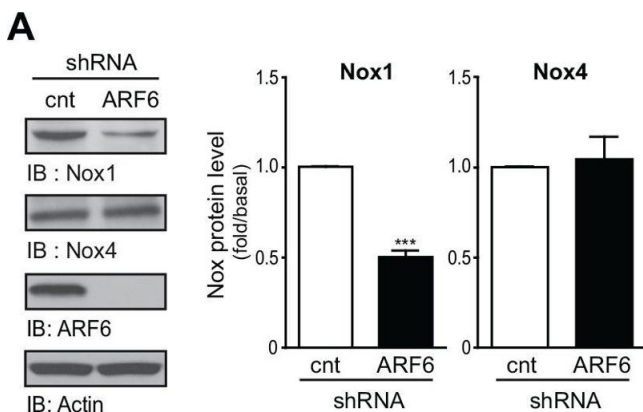
Kashiwabara, Ambe, Nakagawa, Watanabe: "Immunohistochemical localization of Nox in mouse circumvallate papillae." in: **Tissue & cell**, Vol. 47, Issue 6, pp. 550-8, (2015) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human colon carcinoma labeled with RABBIT ANTI-NOX1/NADPH OXIDASE 1 POLYCLONAL ANTIBODY Unconjugated (ABIN702580) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. ARF6 regulates Nox1 expression.(A) Nox1 and Nox4 protein expression was examined in control and ARF6 depleted VSMC using Western blot analysis. Levels of ARF6 and actin were also determined. Graph represents quantification of all data (n = 3, ***P< 0.001). (B) mRNA levels of Nox1 and Nox4 were also assessed in cells infected with the control and ARF6 shRNA. Data were normalized to two control mRNA (GADPH and 4-HPRT) and presented as fold change over one control experiment (n = 3, *P < 0.05). (C) Noxa1 and Noxo1 protein levels were measured in control and ARF6 depleted VSMC using

Western blot analysis. Graph represents quantification of three independent experiments (n = 3). (D) Nox1 and Nox4 protein expression was also examined in control and Rac1 depleted VSMC as in (A) (n = 3). (E) VSMC were transiently transfected with empty vector, HA-ARF6, HA-ARF6 T157A, HA-ARF6 T27N, myc-Rac1, myc-Rac1 Q61L or myc-Rac1 T17N and Nox1, actin, HA-tag and myc-tag levels were detected using Western blot analysis (n = 3). - figure provided by CiteAb. Source: PMID26824355