

Product Datasheet

NOX1 Antibody - Azide Free

NBP1-31546

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-31546

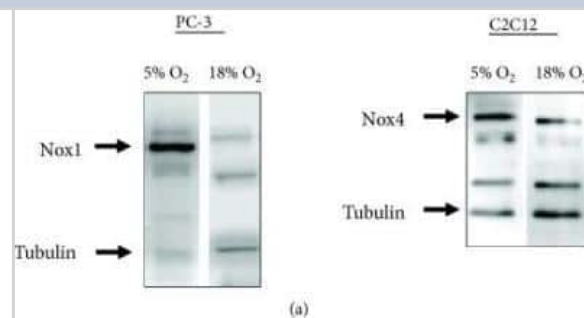
NOX1 Antibody - Azide Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	65 kDa
Product Description	
Description	Novus Biologicals Rabbit NOX1 Antibody - Azide Free (NBP1-31546) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-NOX1 Antibody: Cited in 34 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	27035
Gene Symbol	NOX1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (85%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human NOX1. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Flow Cytometry Validated from a verified customer review., Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation Reported in scientific literature (PMID: 27094494), Immunohistochemistry-Paraffin 1:100-1:1000

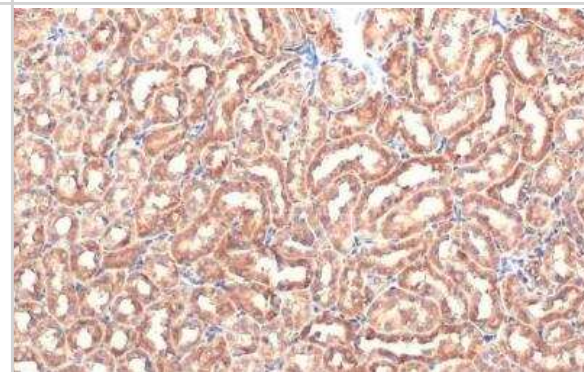


Images

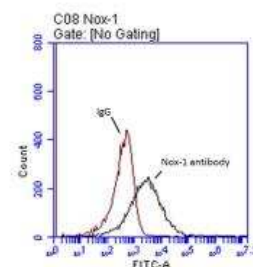
Western Blot: NOX1 Antibody [NBP1-31546] - Representative Western blots showing Nox1 and beta-tubulin in PC-3 cells or Nox4 and beta-tubulin in C2C12 cells, at 5% and 18% O₂. Total cellular proteins were extracted by treating cells with NP-40 buffer (150mM NaCl, 1% NP-40, 50mM Tris-HCl pH8.0). Total protein (15ug per sample) was resolved on 10% SDS-PAGE, transferred to a polyvinylidene difluoride membrane, and probed for Nox1 or Nox4. beta-Tubulin was used as an internal loading and transfer control. All antibodies were purchased from Novus Biologicals; Nox1 (NBP1-31546), Nox4 (NB110-58851), b-tubulin (NB600-936). Data were analysed using two-tailed Student's t-tests. Bars represent means+/-SEM from at least five independent experiments. $p < 0.05$. The identities of bands at intermediate molecular weight are unknown. Image collected and cropped by CiteAb from the following publication (hindawi.com/journals/omcl/2018/8238459/), licensed under a CC-BY license.



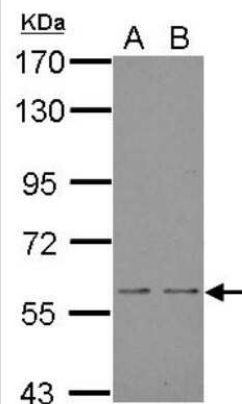
Immunohistochemistry-Paraffin: NOX1 Antibody [NBP1-31546] - Mouse kidney. NOX1 stained by NOX1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



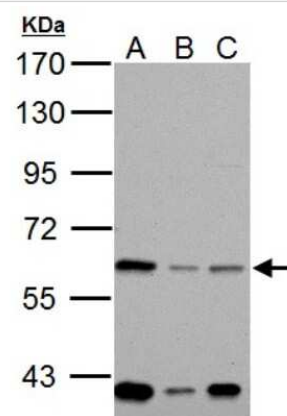
Flow Cytometry: NOX1 Antibody [NBP1-31546] - Nox-1 is present at the surface of resting platelets. Human platelets (4×10^8 cells/mL) were isolated from whole blood and incubated with the Nox-1 antibody or Rabbit IgG control at 1:250 dilution for 30 minutes at room temperature. FITC-tagged anti-rabbit (secondary antibody) was added at 1:100 dilution and incubated for an additional 30 minutes. Platelets were then diluted 1:25 v/v in Tyrodes buffer and read using a BD Accuri flow cytometer. Image from verified customer review.



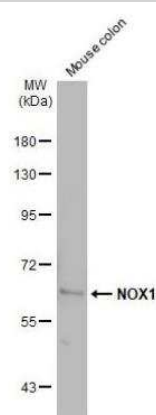
Western Blot: NOX1 Antibody [NBP1-31546] - Sample (30 ug of whole cell lysate) A: JC B: BCL-1 7. 5% SDS PAGE; antibody diluted at 1:5000.



Western Blot: NOX1 Antibody [NBP1-31546] - Sample (30 ug of whole cell lysate) A: 293T B: A431 C: HeLa 7. 5% SDS PAGE, antibody diluted at 1:2000.



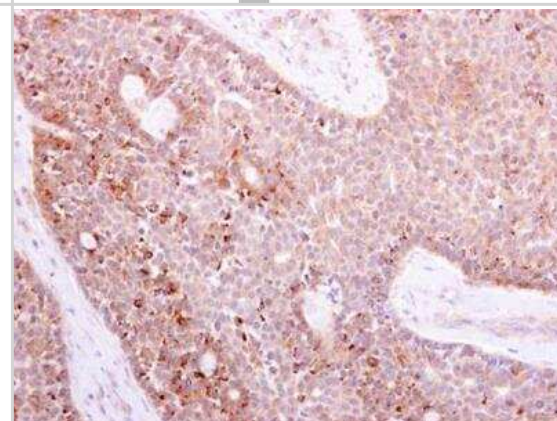
Western Blot: NOX1 Antibody [NBP1-31546] - Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with NOX1 antibody diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



Immunohistochemistry-Paraffin: NOX1 Antibody [NBP1-31546] - NOX1 antibody detects NOX1 protein at cytoplasm on human lung carcinoma by immunohistochemical analysis.

Sample: Paraffin-embedded human lung carcinoma. NOX1 antibody diluted at 1:500.

Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min

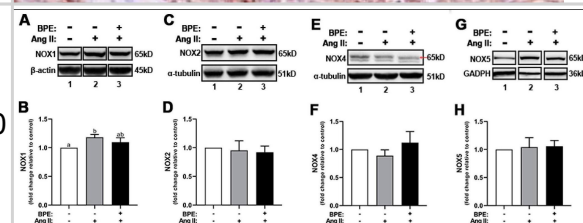


Western Blot: NOX1 Antibody [NBP1-31546] - Blueberry polyphenol extract (BPE) did not affect the expression of NADPH oxidases (NOX) in angiotensin (Ang) II-treated human aortic endothelial cells (HAECs).

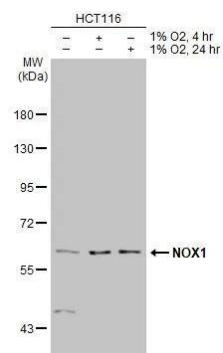
HAECs were treated with 200 µg/mL of BPE for 1 h then treated with 200 nM of Ang II for 12 h. Protein expression of NOX1 (A,B), NOX2 (C,D), NOX4 (E,F), & NOX5 (G,H) were determined by Western blot.

Quantification was performed using Image Lab (Bio-Rad Laboratories, Inc.). Data are expressed as mean ± SD from three (NOX1 & NOX4) & five (NOX2 & NOX5) independent experiments. Values that do not share the same letter are significantly different from each other ($p \leq 0.05$).

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Untreated (-) and treated (+) HCT116 whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NOX1 antibody (NBP1-31546) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

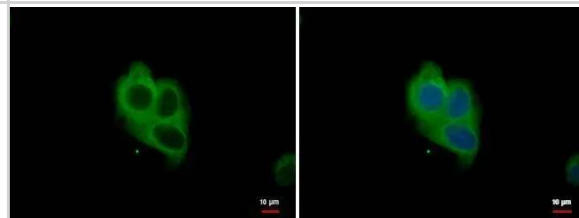


NOX1 antibody detects NOX1 protein at cytoplasm by immunofluorescent analysis.

Sample: HepG2 cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: NOX1 protein stained by NOX1 antibody (NBP1-31546) diluted at 1:500.

Blue: Hoechst 33342 staining.



Publications

Yao G, Li H, Zuo X et al. Oscillatory shear stress promotes vein graft intimal hyperplasia via NADPH oxidase-related pathways *Frontiers in Surgery* 2023-02-13 [PMID: 36860953]

Gaspar RS, Ferreira PM, Mitchell JL et al. Platelet-derived extracellular vesicles express NADPH oxidase-1 (Nox-1), generate superoxide and modulate platelet function *Free Radical Biology and Medicine* 2021-03-01 [PMID: 33548451]

Hwang S, Kim SH, Yoo KH et al. Exogenous 8-hydroxydeoxyguanosine attenuates doxorubicin-induced cardiotoxicity by decreasing pyroptosis in H9c2 cardiomyocytes *BMC molecular and cell biology* 2022-12-14 [PMID: 36517746]

Sevilla-Montero J, Munar-Rubert O, Pino-Fadón J et al. Cigarette smoke induces pulmonary arterial dysfunction through an imbalance in the redox status of the soluble guanylyl cyclase *Free Radic Biol Med* 2022-12-06 [PMID: 36174878] (Western Blot)

Tian HP, Sun YH, He L et al. Single-Stranded DNA-Binding Protein 1 Abrogates Cardiac Fibroblast Proliferation and Collagen Expression Induced by Angiotensin II. *Int Heart J.* 2018-10-25 [PMID: 30369577]

Pankaj Attri, Jae-Hyun Park, Joey De Backer, Myeongkyu Kim, Ji-Hye Yun, Yunseok Heo, Sylvia Dewilde, Masaharu Shiratani, Eun Ha Choi, Weontae Lee, Annemie Bogaerts Structural modification of NADPH oxidase activator (Noxa 1) by oxidative stress: An experimental and computational study. *International journal of biological macromolecules* 2021-04-01 [PMID: 32961197]

Scharmacher J, Wartenberg M, Sauer H The pro-inflammatory signature of lipopolysaccharide in spontaneous contracting embryoid bodies differentiated from mouse embryonic stem cells *Journal of cellular and molecular medicine* 2023-06-14 [PMID: 37315183] (WB, Mouse)

Meister ML, Najjar RS, Danh JP et al. Berry consumption mitigates the hypertensive effects of a high-fat, high-sucrose diet via attenuation of renal and aortic AT1R expression resulting in improved endothelium-derived NO bioavailability *The Journal of nutritional biochemistry* 2022-11-23 [PMID: 36435288] (WB, Mouse, Human)

Tarafdar A, Wolska N, Krisp C et al. The amyloid peptide beta disrupts intercellular junctions and increases endothelial permeability in a NADPH oxidase 1-dependent manner *Redox Biology* 2022-06-01 [PMID: 35358850] (WB, Human)

Najjar R, Mu S, Feresin R Blueberry Polyphenols Increase Nitric Oxide and Attenuate Angiotensin II-Induced Oxidative Stress and Inflammatory Signaling in Human Aortic Endothelial Cells *Antioxidants* 2022-03-23 [PMID: 35453301] (WB, Human)

Hong G, Davies C, Omole Z et al. *Campylobacter jejuni* modulates reactive oxygen species production and NADPH oxidase 1 expression in human intestinal epithelial cells *bioRxiv* 2022-03-07 (WB, Human)

Oh S, Yang JY, Park CH Et al. Dieckol Reduces Muscle Atrophy by Modulating Angiotensin Type II Type 1 Receptor and NADPH Oxidase in Spontaneously Hypertensive Rats *Antioxidants (Basel, Switzerland)* 2021-09-30 [PMID: 34679696] (WB, Rat)

More publications at <http://www.novusbio.com/NBP1-31546>



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NBP2-24891	Rabbit IgG Isotype Control

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