

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	Immunogen affinity purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	65 kDa

Product Description

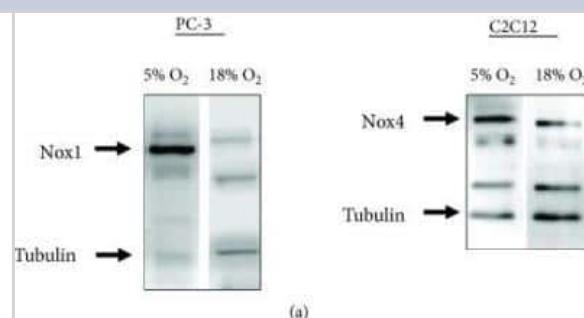
Host	Rabbit
Gene ID	27035
Gene Symbol	NOX1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (85%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human NOX1. The exact sequence is proprietary.

Product Application Details

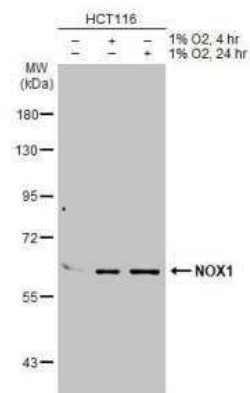
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Flow Cytometry Validated from a verified customer review., Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation Reported in scientific literature (PMID: 27094494), Immunohistochemistry-Paraffin 1:100-1:1000

Images

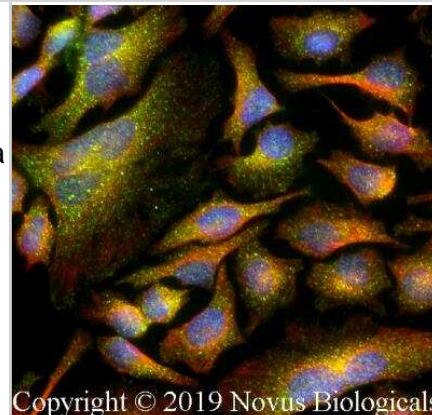
Western Blot: NOX1 Antibody [NBP1-31546] - Representative Western blots showing Nox1 and beta-tubulin in PC-3 cells or Nox4 and beta-tubulin in C2C12 cells, at 5% and 18% O₂. Total cellular proteins were extracted by treating cells with NP-40 buffer (150mM NaCl, 1% NP-40, 50mM Tris-HCl pH8.0). Total 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 \pm 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.



Western Blot: NOX1 Antibody [NBP1-31546] - Untreated (-) and treated (+) HCT116 whole cell extracts (30 ug) were 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.

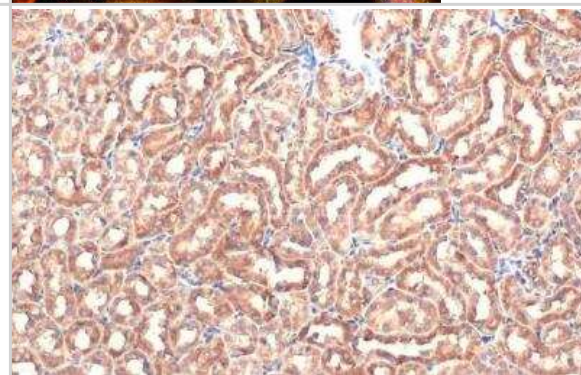


Immunocytochemistry/Immunofluorescence: NOX1 Antibody [NBP1-31546] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-NOX1 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

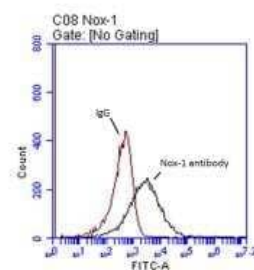


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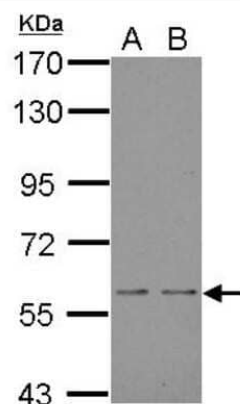
Immunohistochemistry-Paraffin: NOX1 Antibody [NBP1-31546] - Mouse kidney. NOX1 stained by NOX1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



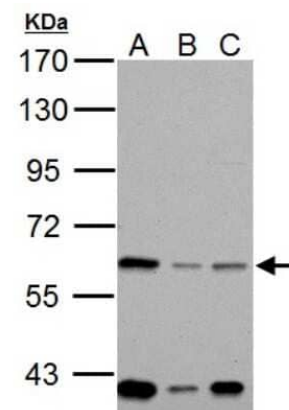
Flow Cytometry: NOX1 Antibody [NBP1-31546] - Nox-1 is present at the surface of resting platelets. Human platelets (4×10^8 cells/mL) were isolated from whole blood and incubated with the Nox-1 antibody or Rabbit IgG control at 1:250 dilution for 30 minutes at room temperature. FITC-tagged anti-rabbit (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.



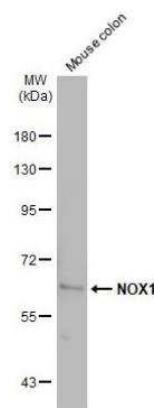
Western Blot: NOX1 Antibody [NBP1-31546] - Sample (30 ug of whole cell lysate) A: JC B: BCL-1 7. 5% SDS PAGE; antibody diluted at 1:5000.



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.



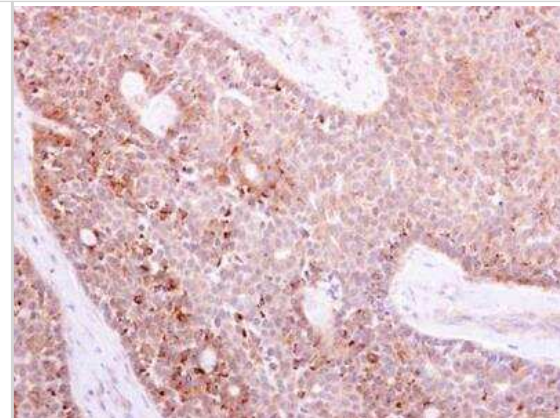
Immunocytochemistry/Immunofluorescence: NOX1 Antibody [NBP1-31546] - Nox1 antibody detects Nox1 protein at cytoplasm by immunofluorescent analysis. Sample: HepG2 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Nox1 protein stained by NBP1-31546 diluted at 1:500. Blue: Hoechst 33342 staining.



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.

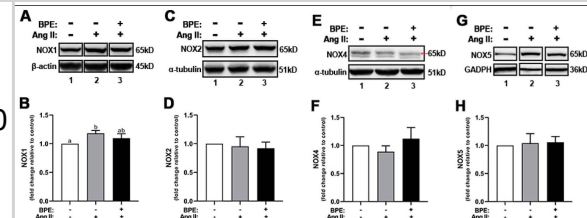
Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min



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 ($p \leq 0.05$).

Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35453301>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

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)

Gaspar R, Sage T, Little G et al. Protein Disulphide Isomerase and NADPH Oxidase 1 Cooperate to Control Platelet Function and Are Associated with Cardiometabolic Disease Risk Factors Antioxidants 2021-03-23 [PMID: 33806982] (ICC/IF, Human)

Kumar Raut P, Park P Globular adiponectin antagonizes leptin-induced growth of cancer cells by modulating inflammasomes activation: Critical role of HO-1 signaling Biochemical Pharmacology 2020-07-01 [PMID: 32745467]

Wang X, Zhang S, Ding Y et al. p47phox deficiency impairs platelet function and protects mice against arterial and venous thrombosis Redox Biol 2020-05-11 [PMID: 32422541] (WB, Mouse)

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





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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