Datasheet for ABIN2782754

anti-NOX1 antibody (C-Term)

5 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	NOX1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio), Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOX1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human NOX1
Sequence:	STIATSHPKS VVGVFLCGPR TLAKSLRKCC HRYSSLDPRK VQFYFNKENF
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 93%, Rabbit: 100%, Rat: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against NOX1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NOX1

Target Details

Alternative Name:	NOX1 (NOX1 Products)
Background:	Voltage-gated proton (hydrogen) channels play an important role in cellular defense against acidic stress. They are unique among ion channels with respect to their extremely high selectivity, marked temperature dependence, and unitary conductance, which is 3 orders of magnitude lower than that of most other ion channels. NOX1 is a homolog of the catalytic subunit of the superoxide-generating NADPH oxidase of phagocytes, gp91phox.Voltage-gated proton (hydrogen) channels play an important role in cellular defense against acidic stress. They are unique among ion channels with respect to their extremely high selectivity, marked temperature dependence, and unitary conductance, which is 3 orders of magnitude lower than that of most other ion channels. NOX1 is a homolog of the catalytic subunit of the superoxide-generating NADPH oxidase of phagocytes, gp91phox. Three splice variants of NOX1 have been identified, NOH-1L, NOH-1S and NOH-1Lv. The NOH-1S currents were reversibly blocked by zinc, a known H+ channel inhibitor. The NOH-1S variant does not contain an electron transport chain and it is thought that H+ conductance is its main physiologic function, whereas NOH-1L may conduct H+ ions as part of its electron transport mechanism. Alias Symbols: GP91-2, MOX1, NOH-1, NOH1 Protein Interaction Partner: NOXA1, CYBA, Protein Size: 564
Molecular Weight:	65 kDa
Gene ID:	27035
NCBI Accession:	NM_007052, NP_008983
UniProt:	Q9Y5S8
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, Proton Transport

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 564 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

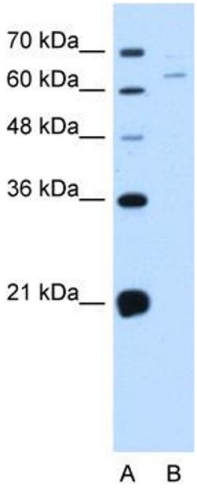
Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

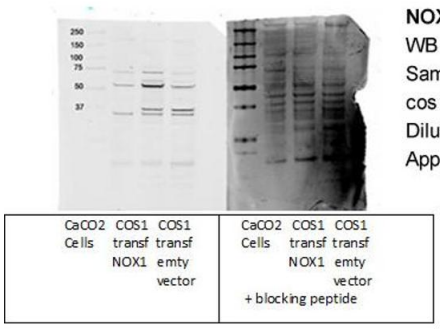
Product cited in:	Rayegan, Dehpour, Sharifi: "Studying neuroprotective effect of Atorvastatin as a small molecule drug on high glucose-induced neurotoxicity in undifferentiated PC12 cells: role of NADPH oxidase." in: **Metabolic brain disease**, Vol. 32, Issue 1, pp. 41-49, (2016) (PubMed). Kuwano, Kawahara, Yamamoto, Teshima-Kondo, Tominaga, Masuda, Kishi, Morita, Rokutan: " Interferon-gamma activates transcription of NADPH oxidase 1 gene and upregulates production of superoxide anion by human large intestinal epithelial cells." in: **American journal of physiology. Cell physiology**, Vol. 290, Issue 2, pp. C433-43, (2006) (PubMed).

Images



Western Blotting

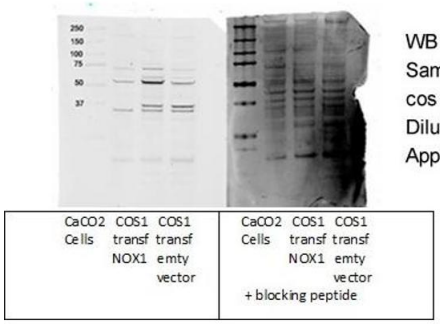
Image 1. WB Suggested Anti-NOX1 Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate



NOX1 (ARP46818_P050)
WB
Sample: CaCO2 cell lysate
cos cells
Dilution: 1:10
Application data in forum

Western Blotting

Image 2.



WB
Sample: CaCO2 cell lysate
cos cells
Dilution: 1:10
Application data in forum

Western Blotting

Image 3. NOX1 antibody - C-terminal region validated by WB using Epithelial Colorectal Adenocarcinoma CaCO2 at 1:10.

Please check the product details page for more images. Overall 5 images are available for ABIN2782754.