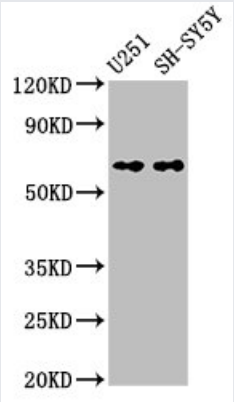
NADPH Oxidase 4 (NOX4) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NADPH oxidase 4 (Nox4), Polyclonal Antibody
Full Product Name	Rabbit anti-rat NADPH oxidase 4 polyclonal Antibody
Product Gene Name	anti-Nox4 antibody
Product Synonym Names	Kidney oxidase-1 Kidney superoxide-producing NADPH oxidase Nox4 Kox
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: NADPH oxidase 4 (MBS1490653) HRP Conjugated Antibody: NADPH oxidase 4 (MBS1488668)
Matching Pairs	Unconjugated Antibody: NADPH oxidase 4 (MBS1490653) FITC Conjugated Antibody: NADPH oxidase 4 (MBS1491294)
Matching Pairs	Unconjugated Antibody: NADPH oxidase 4 (MBS1490653) Biotin Conjugated Antibody: NOX4 (MBS7004756)
Molecular Weight	66,469 Da
3D Structure	ModBase 3D Structure for Q924V1
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Non-conjugated
Immunogen	Recombinant rat NADPH oxidase 4 protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Nox4 antibody	ELISA (EIA)
Related Product Information for anti-Nox4 antibody	Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB.
Other Notes	Small volumes of anti-Nox4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Nox4 purchase	MBS1490653 is an antibody targeting Nox4. Also known as Rabbit anti-rat NADPH oxidase 4 polyclonal Antibody. Reactive in Rat. Host: Rabbit.



Western Blot (WB) of anti-Nox4 antibody
Western BlotPositive WB detected in: U251 whole cell lysate, SH-SY5Y whole cell lysateAll lanes: Nox4 antibody at 3.3ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 67 KDaObserved band size: 67 KDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nox4. It may not necessarily be applicable to this product.

NCBI GI #	16758288
NCBI GeneID	85431
NCBI Accession #	NP_445976.1
UniProt Primary Accession #	Q924V1
UniProt Secondary Accession #	Q99M78
UniProt Related Accession #	Q924V1
GenBank Nucleotide #	NM_053524.1
NCBI Official Full Name	NADPH oxidase 4
NCBI Official Synonym Full Names	NADPH oxidase 4
NCBI Official Symbol	Nox4
UniProt Protein Name	NADPH oxidase 4
UniProt Synonym Protein Names	Kidney oxidase-1; KOX-1; Kidney superoxide-producing NADPH oxidase
Protein Family	NADPH oxidase
UniProt Gene Name	Nox4
UniProt Synonym Gene Names	Kox; KOX-1
UniProt Entry Name	NOX4_RAT
NCBI Protein Information	NADPH oxidase 4
NCBI Summary for Nox4	enzyme involved in the production of reactive oxygen species in vascular smooth muscle cells [RGD, Feb 2006]

UniProt Comments for Nox4	NOX4: Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation. Isoform 3 is not functional. Isoform 4 displays an increased activity. Isoform 5 and isoform 6 display reduced activity. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus; Cell cycle regulation; Oxidoreductase; Membrane protein, multi-pass; EC 1.6.3.-; Membrane protein, integral
Research Articles on Nox4	**1.** Glycated albumin increases the permissiveness of proximal tubular cells to fibrosis and apoptosis in vitro by triggering a pathway that involves Nox4.
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