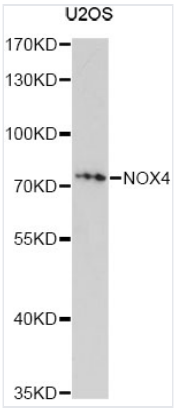
NOX4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOX4, Polyclonal Antibody
Full Product Name	NOX4 Polyclonal Antibody
Product Gene Name	anti-NOX4 antibody
Product Synonym Names	Kidney oxidase 1; Kidney oxidase-1; Kidney superoxide producing NADPH oxidase; Kidney superoxide-producing NADPH oxidase; KOX 1; KOX; Kox-1; KOX1; NADPH; NADPH oxidase 4; Nox4; NOX4; Renal NAD(P)H oxidase; Renal NAD(P)H-oxidase; RENOX
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity Purification
Concentration	1 mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated: 6kDa; 25-31kDa; 58-66kDa Observed: 75kDa
3D Structure	ModBase 3D Structure for Q9NPH5
Immunogen	Recombinant protein of human NOX4
Conjugation	Unconjugated
Product Categories/Family for anti-NOX4 antibody	Cancer; Cell Biology; Cardiovascular; Metabolism; Signal transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOX4 antibody	Western Blot (WB)
Application Notes for anti-NOX4 antibody	WB: 1:500-1:2000
Related Product Information for anti-NOX4 antibody	This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.
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	MBS2554452 is an antibody targeting NOX4. Also known as NOX4 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-NOX4 antibody
Western blot analysis of extracts of U2OS cells, using NOX4 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOX4. It may not necessarily be applicable to this product.

NCBI GI #	219842346
NCBI GeneID	50507
NCBI Accession #	NP_001137308.1
UniProt Primary Accession #	Q9NPH5
UniProt Secondary Accession #	Q5K3R4; Q5K3R5; Q5K3R6; Q5K3R8; Q7Z7G3; Q86V92; A8K715; B7Z520; E7EMD7
UniProt Related Accession #	Q9NPH5
GenBank Nucleotide #	NM_001143836.2
NCBI Official Full Name	NADPH oxidase 4 isoform b
NCBI Official Synonym Full Names	NADPH oxidase 4
NCBI Official Symbol	NOX4
NCBI Official Synonym Symbols	KOX; KOX-1; RENOX
UniProt Protein Name	NADPH oxidase 4
UniProt Synonym Protein Names	Kidney oxidase-1; KOX-1; Kidney superoxide-producing NADPH oxidase; Renal NAD(P)H-oxidase
Protein Family	NADPH oxidase
UniProt Gene Name	NOX4
UniProt Synonym Gene Names	RENOX; KOX-1
NCBI Protein Information	NADPH oxidase 4
UniProt Comments for 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 5 and isoform 6 display reduced activity.
Research Articles on NOX4	**1.** Metabolic syndrome in Brazilian NAFLD patients most likely results from common allelic variants in a large number of genes, including CYBA and NOX4, that interact with each other, each of which alone determines a modest risk.

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