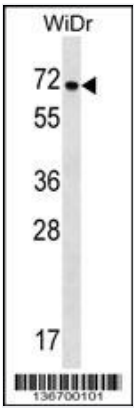
NOX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOX1, Polyclonal Antibody
Full Product Name	NOX1 Antibody (Center)
Product Gene Name	anti-NOX1 antibody
Product Synonym Names	NADPH oxidase 1; NOX-1; 1---; Mitogenic oxidase 1; MOX-1; NADH/NADPH mitogenic oxidase subunit P65-MOX; NOH-1; NOX1; MOX1; NOH1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This NOX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-271 amino acids from the Central region of human NOX1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NOX1 peptide (MBS9222353) is used for blocking the activity of NOX1 antibody (MBS9206150)
Molecular Weight	64871
Immunogen Sequence Positions	243-271
OMIM	300225
3D Structure	ModBase 3D Structure for Q9Y5S8
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-NOX1 antibody	Cell Biology; Immunology; Microbiology
Applications Tested/Suitable for anti-NOX1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NOX1 antibody	WB~~1:1000

Related Product Information for anti-NOX1 antibody	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. Two transcript variants encoding different isoforms have been found for this gene.
Product References and Citations for anti-NOX1 antibody	Sancho, P., et al. J. Biol. Chem. 285(32):24815-24824(2010) van Bruggen, R., et al. Blood 115(26):5398-5400(2010) Roberts, K.E., et al. Gastroenterology 139(1):130-139(2010) Malec, V., et al. Free Radic. Biol. Med. 48(12):1626-1635(2010) Manea, A., et al. Biochem. Biophys. Res. Commun. 396(4):901-907(2010)
Other Notes	Small volumes of anti-NOX1 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 NOX1 purchase	MBS9206150 is an antibody targeting NOX1. Also known as NOX1 Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NOX1 antibody
NOX1 Antibody (Center) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the NOX1 antibody detected the NOX1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOX1. It may not necessarily be applicable to this product.

NCBI GI #	425854820
NCBI GeneID	27035
NCBI Accession #	NP_001258744.1
NCBI Related Accession #	NP_008983.2; NP_039249.1
UniProt Primary Accession #	Q9Y5S8
UniProt Secondary Accession #	O95691; Q2PP02; A8K836
UniProt Related Accession #	Q9Y5S8
GenBank Nucleotide #	NM_001271815.1
NCBI Official Full Name	NADPH oxidase 1 isoform 3
NCBI Official Synonym Full Names	NADPH oxidase 1
NCBI Official Symbol	NOX1

NCBI Official Synonym Symbols	MOX1; NOH1; NOH-1; GP91-2
UniProt Protein Name	NADPH oxidase 1
UniProt Synonym Protein Names	Mitogenic oxidase 1; MOX-1; NADH/NADPH mitogenic oxidase subunit P65-MOX; NOH-1
Protein Family	NADPH oxidase
UniProt Gene Name	NOX1
UniProt Synonym Gene Names	MOX1; NOH1; NOX-1; MOX-1
UniProt Entry Name	NOX1_HUMAN
NCBI Protein Information	NADPH oxidase 1
NCBI Summary for NOX1	This gene encodes a member of the NADPH oxidase family of enzymes responsible for the catalytic one-electron transfer of oxygen to generate superoxide or hydrogen peroxide. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]
UniProt Comments for NOX1	NOX1: NOH-1S is a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes and other tissues. It participates in the regulation of cellular pH and is blocked by zinc. NOH-1L is a pyridine nucleotide-dependent oxidoreductase that generates superoxide and might conduct H(+) ions as part of its electron transport mechanism, whereas NOH-1S does not contain an electron transport chain. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.-.-.-; Membrane protein, integral; Membrane protein, multi-pass; Motility/polarity/chemotaxis; Oxidoreductase; Channel, misc. Chromosomal Location of Human Ortholog: Xq22 Cellular Component: early endosome; integral to membrane; cell junction; NADPH oxidase complex Molecular Function: protein binding; metal ion binding; superoxide-generating NADPH oxidase activity; Rac GTPase binding; NADP binding; voltage-gated proton channel activity Biological Process: respiratory burst; intracellular pH elevation; extracellular matrix organization and biogenesis; cell migration; positive regulation of smooth muscle cell proliferation; superoxide metabolic process; positive regulation of JNK cascade; signal transduction; regulation of systemic arterial blood pressure by renin-angiotensin; NADP metabolic process; proton transport; regulation of blood pressure; positive regulation of cell proliferation; hydrogen peroxide metabolic process; positive regulation of integrin biosynthetic process; angiogenesis; inflammatory response; superoxide release
Research Articles on NOX1	**1.** Enforced NOX1 expression promoted TLR4 signaling-enhanced NSCLC metastasis.
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