

Recombinant Full Length Human NOX4 Protein

Cat. No. NOX4-1539HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human NOX4 was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	578 amino acids
Description	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.
Form	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	63.6 kDa
AA Sequence	MAVSWRSWLA NEGVKHLCLF IWLSMNVLLF WKTFLLYNQG PEYHYLHQML GLGLCLSRAS ASVLNLCNSL ILLPMCRTLL AYLRGSQKVP SRRTRRLLDK SRTFHITCGV TICIFSGVHV AAHLVNALNF SVNYSEDFVE LNAARYDED PRKLLFTTVP GLTGVCMVVV LFLMITASTY AIRVSNYDIF WYTHNLFFVF

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YMLLTLHVSG GLLKYQTNLD THPPGCISLN RTSSQNISLP EYFSEHFHEP
 FPEGFSKPAE FTQHKFVKIC MEEPFRQANF PQTWLWISGP LCLYCAERLY
 RYIRSNKPVV IISVISHPSD VMEIRMVKEN FKARPGQYIT LHCPVSVALE
 NHPFTLT MCP TETKATFGVH LKIVGDWTER FRDLLLPSS QDSEILPFIQ
 SRNYPKLYID GPFSGPFEEES LNYEVSLCVA GGIGVTPFAS ILNTLLDDWK
 PYKLRRLYFI WVCRDIQSFR WFADLLCMLH NKFWQENRPD YVNIQLYLSQ
 TDGIQKIIGE KYHALNSRLF IGRPRWKLIF DEIAKYNRGK TVGVFCCGPN
 SLSKTLHKLS NQNNSYGTRF EYNKESFS

Applications Antibody Production; Functional Study; Compound Screening

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name NOX4 NADPH oxidase 4 [Homo sapiens]

Official Symbol NOX4

Synonyms NOX4; NADPH oxidase 4; KOX; KOX 1; kidney oxidase-1; renal NAD(P)H-oxidase; kidney superoxide-producing NADPH oxidase; KOX-1; RENOX

Gene ID 50507

mRNA Refseq NM_001143836

Protein Refseq NP_001137308

MIM 605261

UniProt ID Q9NPH5

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