

Recombinant Human NOX4 Protein

Cat. No. NOX4-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOX4 was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-578 aa
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	MAVSWRSWLANEGVKHLCLFIWLSMNVLLFWKTFLLYNQGPEYHYLHQMLGLGLC LSRASASVLNLCNLILLPMCRRTLLAYLRGSQKVPSRRTRRLDKSRTFHITCGVTICI FSGVHVAHLVNALNFSVNYSEDFVELNAAARYRDEDPRKLLFTTVPGLTGVCMMVVV LFLMITASTYAIRVSNYDIFWYTHNLFFVFYMLLTLHVSGLLKYQTNLDTHTPPGCISL

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NRTSSQNISLPEYFSEHFHEPFPEGFSKPAEFTQHKFVKICMEEPFRFQANFPQTWL
 WISGPLCLYCAERLYRYIRSNNKPVTIISVISHPSDVMKIRVMKENFKARPGQYITLHCP
 SVSALENHPFTLTMCPTETKATFGVHLKIVGDWTERFRDLLPPSSQDSEILPFIQSR
 NYPKLYIDGPFPGSPFEESLNYEVSLCVAGGIGVTPFASILNTLLDDWKPYKLRLRYFI
 WWCARDIQSFRWFADLLCMLHNKFWQENRPDYVNIQLYLSQTDGIQKIIGEKYHALNS
 RLFIGRPRWKLLFDEIAKYNRGKTVGVFCCGPNSLSKTLHKLSNQNNNSYGTRFEYNK
 ESFS

Applications Antibody Production; Functional Study; Compound Screening

Notes Best use within three months from the date of receipt of this protein. Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

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UniProt ID

Q9NPH5

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