

Recombinant Human NOX4

Cat. No. NOX4-29711TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to aa 479-578 of human NOX4 with a proprietary tag; 36.63kDa inclusive of tag;
Species	Human
Source	Wheat Germ
ProteinLength	100 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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed by distal tubular cells in kidney cortex and in endothelial cells (at protein level). Widely expressed. Strongly expressed in kidney and to a lower extent in heart, adipocytes, hepatoma, endothelial cells, skeletal muscle, brain, several brain t
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced.
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LHNKFWQENRPDYVNIQLYLSQTDGIQKIIGEKYHALNSRLFIGRPRWKLLFDEIAKY NRGKTVGVFCCGPNSLSKTLHKLSNQNNISYGTRFEYNKESFS
Sequence Similarities	Contains 1 FAD-binding FR-type domain.Contains 1 ferric oxidoreductase domain.

GENE INFORMATION

Gene Name	NOX4 NADPH oxidase 4 [Homo sapiens]
Official Symbol	NOX4
Synonyms	NOX4; NADPH oxidase 4; KOX; KOX 1;
Gene ID	50507
mRNA Refseq	NM_001143836
Protein Refseq	NP_001137308
MIM	605261
Uniprot ID	Q9NPH5

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Chromosome Location	11q14.2-q21
Pathway	Oxidative Stress, organism-specific biosystem; Signaling events mediated by PTP1B, organism-specific biosystem;
Function	NAD(P)H oxidase activity; electron carrier activity; flavin adenine dinucleotide binding; heme binding; nucleotide binding;

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