Recombinant Human NOX1 293 Cell Lysate

Cat. No. NOX1-3751HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for NADPH oxidase 1 (NOX1), transcript variant NOH-1L is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	NOX1 NADPH oxidase 1 [Homo sapiens]
Official Symbol	NOX1
Synonyms	NOX1; NADPH oxidase 1; GP91 2; mitogenic oxidase (pyridine nucleotide dependent superoxide generating); MOX1; NADPH oxidase 1 variant NOH 1L; NADPH oxidase homolog 1; NOH 1; NOH1; MOX-1; NOX-1; mitogenic oxidase 1; NADPH oxidase homolog-1; NADPH oxidase 1 variant NOH-1L; NADH/NADPH mitogenic oxidase subunit P65-MOX; mitogenic oxidase (pyridine nucleotide-dependent superoxide-generating); NOH-1; GP91-2;
Gene ID	27035
mRNA Refseq	NM_007052
Protein Refseq	NP_008983
MIM	300225
UniProt ID	Q9Y5S8
Chromosome Location	Xq22
Pathway	Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte

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	transendothelial migration, conserved biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; RAC1 signaling pathway, organism-specific biosystem;
Function	NADP binding; Rac GTPase binding; electron carrier activity; flavin adenine dinucleotide binding; iron ion binding; metal ion binding; oxidoreductase activity; protein binding; superoxide-generating NADPH oxidase activity; superoxide-generating NADPH oxidase activity; voltage-gated ion channel activity; voltage-gated proton channel activity;

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