

Recombinant Human SMOX 293 Cell Lysate

Cat. No. SMOX-1655HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for spermine oxidase (SMOX), transcript variant 2 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	SMOX spermine oxidase [Homo sapiens]
Official Symbol	SMOX
Synonyms	PAO; SMO; PAO1; PAOH; PAO-1; PAOH1; C20orf16; spermine oxidase; polyamine oxidase 1; flavin containing amine oxidase; flavin-containing spermine oxidase; putative cyclin G1 interacting protein
Gene ID	54498
mRNA Refseq	NM_175840
Protein Refseq	NP_787034
MIM	615854
UniProt ID	Q9NWM0
Chromosome Location	20p13
Pathway	Amine Oxidase reactions, organism-specific biosystem; Metabolism of polyamines, organism-specific biosystem; spermine and spermidine degradation I, conserved biosystem

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Function

N1-acetylspermine:oxygen oxidoreductase (N1-acetylspermidine-forming) activity;
spermine:oxygen oxidoreductase (spermidine-forming) activity

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