

Human COX4I1 Knockdown Cell Lysate

Cat. No. COX4I1-478HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated COX4I1 Knockdown HT-1080 Cell Lysate
Species	Human
Source	HT-1080
Description	<p>Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. Pseudogenes related to this gene are located on chromosomes 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms.</p>
Form	Cell-Tissue Lysis buffer
Molecular Mass	20 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 cell lysate for use. For Western blotting, we recommend running wild-type and

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg COX4I1 KD HT-1080 cell lysate
Protein Families	Transmembrane
Protein Pathways	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	COX4I1 cytochrome c oxidase subunit IV isoform 1 [Homo sapiens (human)]
Official Symbol	COX4I1
Synonyms	COX4I1; cytochrome c oxidase subunit IV isoform 1; COX4, cytochrome c oxidase subunit IV; cytochrome c oxidase subunit 4 isoform 1, mitochondrial; COX4 1; COX IV-1; cytochrome c oxidase polypeptide IV; COX4; COXIV; COX4-1; FLJ23483; MGC72016;
Gene ID	1327

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mRNA Refseq	NM_001861
Protein Refseq	NP_001852
MIM	123864
UniProt ID	P13073

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