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# COX4I1 Knockdown 293T Cell Lysate, Heterozygous

**Catalog No.: RM02354**

## Basic Information

**Catalog No.**
RM02354

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockdown

## Gene Information

**Gene Symbol**
COX4I1

**Species**
Human

**Gene ID**
1327

**Swiss Prot**
P13073

**Synonyms**
COX IV-1; COX4; COX4-1; COXIV; COXIV-1

## Contact


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn


## Background

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. [provided by RefSeq, Jan 2016]

## Product Information

**Description**
COX4I1 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:29bp deletion and 1bp deletion in exon2
Allele-2:65bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

**Packaging**
1 vial parental cell Lysate and 1 vial knockout cell Lysate

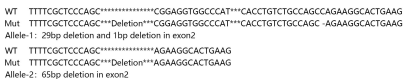
**Shipping Conditions**
4℃

**Amount**
50μL, 2μg/μL.

**Storage**
Store at -20℃

**Protocol**
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data




Genome sequence analysis of PCR products from parental (WT) and COX4I1 Knockdown (KD) 293T cells, using sanger sequencing.