

Recombinant Human COX5A cell lysate

Cat. No. COX5A-389HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

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 of 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 Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene Name

COX5A cytochrome c oxidase subunit Va [Homo sapiens]

Official Symbol

COX5A

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Synonyms	COX5A; cytochrome c oxidase subunit Va; cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase polypeptide Va; mitochondrial cytochrome c oxidase subunit Va; cytochrome c oxidase polypeptide, mitochondrial; VA; COX; COX-VA;
Gene ID	9377
mRNA Refseq	NM_004255
Protein Refseq	NP_004246
MIM	603773
UniProt ID	P20674
Chromosome Location	15q25
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem;
Function	cytochrome-c oxidase activity; electron carrier activity; metal ion binding;

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