

COX6c Polyclonal Antibody

Catalog No: YT1078

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: COX6c

Fields: >>Oxidative phosphorylation;>>Metabolic pathways;>>Cardiac muscle

contraction;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic

cardiomyopathy

Gene Name: COX6C

Protein Name: Cytochrome c oxidase subunit 6C

P09669

Q9CPQ1

Human Gene Id: 1345

Human Swiss Prot

No:

Mouse Gene ld: 12864

Mouse Swiss Prot

No:

Immunogen : The antiserum was produced against synthesized peptide derived from human

COX6C. AA range:11-60

Specificity: COX6c Polyclonal Antibody detects endogenous levels of COX6c protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 32kD

Cell Pathway: Oxidative phosphorylation; Cardiac muscle contraction; Alzheimer's

disease;Parkinson's disease;Huntington's disease;

Background : Cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory

chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial

genes and multiple structural subunits encoded by nuclear genes. The

mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by

RefSeg, Jul 2010],

Function: function: This protein is one of the nuclear-coded polypeptide chains of

cytochrome c oxidase, the terminal oxidase in mitochondrial electron

transport., similarity: Belongs to the cytochrome c oxidase subunit 6c family.,

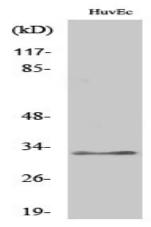
Subcellular

Location:

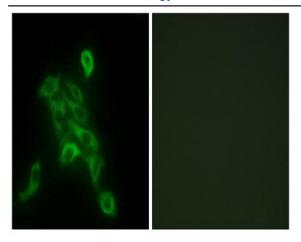
Expression: Eye,

 $\label{lem:membrane} \mbox{Mitochondrion inner membrane ; Single-pass membrane protein} \; .$

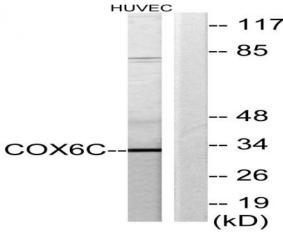
Products Images



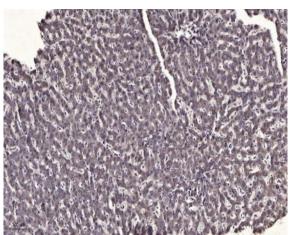
Western Blot analysis of various cells using COX6c Polyclonal Antibody



Immunofluorescence analysis of HepG2 cells, using COX6C Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using COX6C Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).