

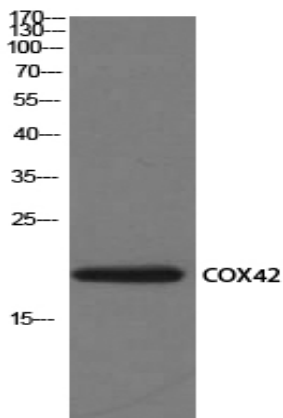
COX4I2 Polyclonal Antibody

Catalog No :	YT1075
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	COX4I2
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 :	COX4I2
Protein Name :	Cytochrome c oxidase subunit 4 isoform 2 mitochondrial
Human Gene Id :	84701
Human Swiss Prot No :	Q96KJ9
Mouse Gene Id :	84682
Mouse Swiss Prot No :	Q91W29
Rat Gene Id :	84683
Rat Swiss Prot No :	Q91Y94
Immunogen :	The antiserum was produced against synthesized peptide derived from human COX42. AA range:31-80
Specificity :	COX4I2 Polyclonal Antibody detects endogenous levels of COX4I2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

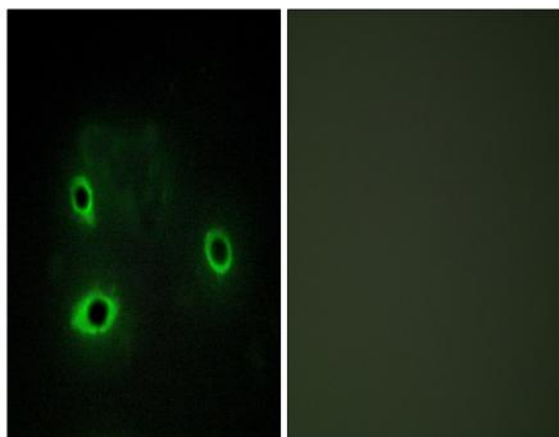
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	20kD
Cell Pathway :	Oxidative phosphorylation;Cardiac muscle contraction;Alzheimer's disease;Parkinson's disease;Huntington's disease;
Background :	Cytochrome c oxidase (COX), 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 isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation. [provided by RefSeq, Jul 2008],
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 IV family.,tissue specificity:Highly expressed in lung.,
Subcellular Location :	Mitochondrion inner membrane ; Single-pass membrane protein .
Expression :	Highly expressed in lung.

Products Images

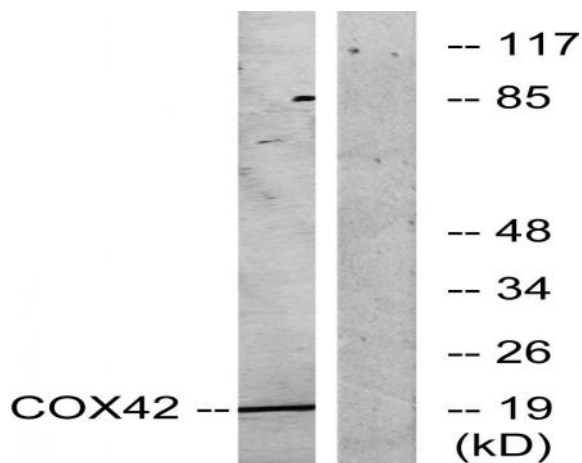
K562 insulin 0.01U/ml 15'



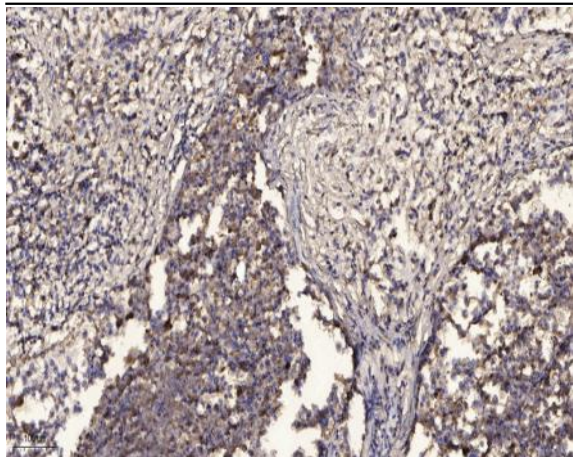
Western Blot analysis of K562 insulin 0.01U/ml 15' cells using COX42 Polyclonal Antibody



Immunofluorescence analysis of COS7 cells, using COX42 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, treated with insulin 0.01U/ml 15', using COX42 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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).