

Product datasheet for TA356212

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COX4 (COX4I1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, IP, WB

Reactivity: Human Host: Rabbit

Clonality: Polyclonal

Immunogen: The immunogen is a synthetic peptide directed towards the N terminal region of human

COX4I1

Specificity: Expected reactivity: Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat

Homology: Cow: 86%; Dog: 86%; Guinea Pig: 86%; Horse: 86%; Human: 100%; Mouse: 85%;

Rabbit: 86%; Rat: 86%

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

Concentration: lot specific

Purification: Protein A purified

Conjugation: Unconjugated

Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small

aliquots to prevent freeze-thaw cycles.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 19kDa

Gene Name: cytochrome c oxidase subunit 4l1

Database Link: NP 001852

Entrez Gene 1327 Human

P13073





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. COX4I1 is the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme.Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multisubunit 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 nuclearencoded 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.

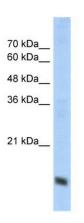
Synonyms: COX4; COXIV; MGC72016

Protein Families: Transmembrane

Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways,

Oxidative phosphorylation, Parkinson's disease

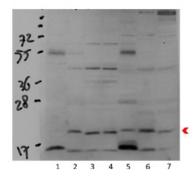
Product images:

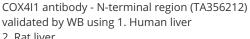


WB Suggested Anti-COX4I1 Antibody Titration: 1.25ug/ml

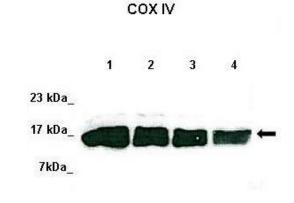
Positive Control: HepG2 cell lysateCOX4I1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



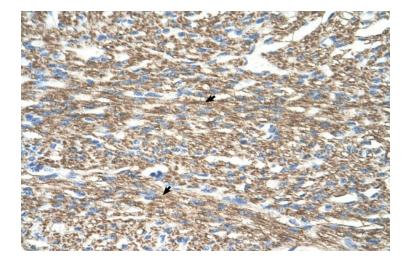




- 2. Rat liver
- 3. Wild-type mouse liver
- 4. AMPKa1+2-/- mouse liver
- 5. Human muscle
- 6. Rat muscle
- 7. Mouse muscle at 1:1000.



See Immunoblot 3 Data and Customer Feedback for more Information.



Lanes:

Lane 1: 50ug HeLa lysate Lane 2: 50ug 293T lysate Lane 3: 50ug K562 lysate

Lane 4: 50ug MDA-MB-231 lysate

Primary Antibody Dilution:

1:1000

Secondary Antibody:

Anti-rabbit-HRP

Secondary Antibody Dilution:

1:1000

Gene Name:

COX4I1

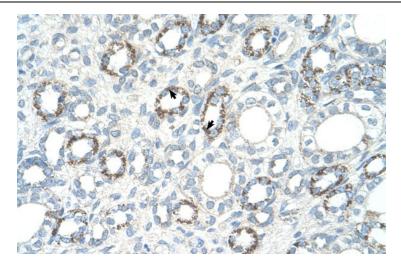
Submitted by:

David Colecchia, Ph.D, Istituto Toscano Tumori, Core Research Laboratory, presso Fondazione

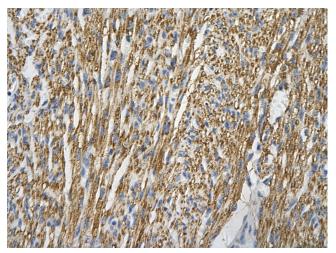
Toscana Life Sciences

Human Heart

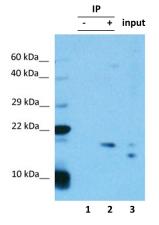




Human kidney



Rabbit Anti-COX4I1 Antibody
Catalog Number: ARP42784
Paraffin Embedded Tissue: Human cardiac cell
Cellular Data: Epithelial cells of renal tubule
Antibody Concentration: 4.0-8.0 ug/ml
Magnification: 400X



Lysate: HEK293 2mg
IP: COX4I1 2ug
Detection: COX4I1 3ug/ml

COX4I1 was immunoprecipitated from 2 mg HEK293 Whole Cell Lysate with TA356212 with 1:200 dilution. Western blot was performed using TA356212 at 1/1000 dilution.

Lane 1: Control IP in HEK293 Whole Cell Lysate. Lane 2: COX4I1 IP with TA356212 in HEK293

Whole Cell Lysate.

Lane 3: Input of HEK293 Whole Cell Lysate.