

Rabbit COX4I1 Polyclonal Antibody | anti-COX4I1 antibody

COX4I1 antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23506	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

COX4I1; Polyclonal Antibody; COX4I1 antibody - N-terminal region; anti-COX4I1 antibody

PRODUCT SPECIFICATIONS

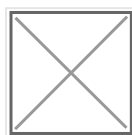
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Protein A purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: AI STSVCVRAHE SVVKSEDFSL PAYMDRRDHP LPEVAHV KHL SASQKALK
Sequence Length	169
Applicable Applications for anti-COX4I1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 86%; Dog: 86%; Guinea Pig: 86%; Horse: 86%; Human: 100%; Mouse: 85%; Rabbit: 86%; Rat: 86%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human COX4I1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



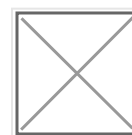
WB (Western Blot)

WB Suggested Anti-COX4I1 Antibody Titration: 1.25ug/ml
Positive Control: HepG2 cell lysate
COX4I1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



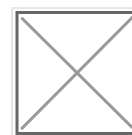
WB (Western Blot)

COX4I1 antibody - N-terminal region validated by WB using 1. Human liver 2. Rat liver 3. Wild-type mouse liver 4. AMPKα1+2-/- mouse liver 5. Human muscle 6. Rat muscle 7. Mouse muscle at 1:1000.



WB (Western Blot)

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

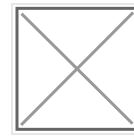


IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)
Human kidney



IHC (Immunohistochemistry)
Human Heart

ADDITIONAL INFORMATION

Related Product Information for anti-COX4I1 antibody	This is a rabbit polyclonal antibody against COX4I1. It was validated on Western Blot and immunohistochemistry Target 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 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 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.
Product Categories/Family for anti-COX4I1 antibody	Polyclonal ; Membrane Protein ; Drugs and Drug Metabolism ; Chromatin & Nuclear Signaling ; Membrane & Traffic ; Immunohistochemistry

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502981
NCBI GeneID	1327
NCBI Accession #	NP_001852
NCBI GenBank Nucleotide #	NM_001861
UniProt Accession #	P13073
Molecular Weight	19kDa
NCBI Official Full Name	cytochrome c oxidase subunit 4 isoform 1, mitochondrial isoform 1
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 4I1
NCBI Official Symbol	COX4I1
NCBI Official Synonym Symbols	COX4; COXIV; COX4-1; COXIV-1; COX IV-1
NCBI Protein Information	cytochrome c oxidase subunit 4 isoform 1, mitochondrial
UniProt Protein Name	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
UniProt Gene Name	COX4I1
UniProt Synonym Gene Names	COX4; COX IV-1
UniProt Entry Name	COX41_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

