SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-COX17 antibody

Catalog Number: SL14005R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	COX17
Immunogen:	KLH conjugated synthetic peptide derived from human COX17: 1-50/63
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Pig)
Predicted MW.:	7kDa
Subcellular Location:	cytoplasmic
Background:	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component 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 function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a

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	candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq, Jul 2008] **Function:** Copper chaperone for cytochrome c oxidase (COX). Binds two copper ions and deliver them to the Cu(A) site of COX. **Subunit:** Interacts with COA1. Interacts with the chaperone CHCHD4; this is important for correct folding and the formation of disulfide bonds that stabilize the structure. **Subcellular Location:** Mitochondrion intermembrane space. **Tissue Specificity:** Ubiquitous. **Similarity:** Belongs to the COX17 family. **Database links:** **Entrez Gene:** 10063 Human **Entrez Gene:** 12856 Mouse **Entrez Gene:** 89786 Rat Omim: 604813 Human **SwissProt:** Q14061 Human **SwissProt:** P56394 Mouse **Unigene:** 534383 Human **Unigene:** 27396 Mouse **Unigene:** 19207 Rat

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