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Rabbit Anti-COX17 antibody

SL14005R

Product Name:	COX17
Chinese Name:	细胞色素C氧化酶17抗体
Alias:	COX 17; COX17; COX17 cytochrome c oxidase assembly homolog (S. cerevisiae); COX17 cytochrome c oxidase assembly homolog; COX17 homolog cytochrome c oxidase assembly protein; COX17_HUMAN; cytochrome c oxidase assembly protein cox17 homolog; Cytochrome c oxidase copper chaperone; Human homolog of yeast mitochondrial copper recruitment; MGC104397; MGC117386; OTTHUMP00000215284; OTTHUMP00000215285.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	7kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human COX17:1-50/63
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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.

SWISS:
P07327

Gene ID:
10063

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 **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.