

Rabbit COX17 Polyclonal Antibody | anti-COX17 antibody

COX17 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321150	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

COX17; Polyclonal Antibody; COX17 Antibody; COX 17; 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; anti-COX17 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	COX17 antibody detects endogenous levels of COX17
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	63
Applicable Applications for anti-COX17 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human COX17
Subcellular Location	Mitochondrion Intermembrane Space.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Pig, Bovine, Dog, Xenopus
Similarity	Pig (100%), Bovine (91%), Dog (82%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321150 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA321150 at 1/100 staining human skeletal muscle tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from 293, using COX17 Antibody.



WB (Western Blot)

Western blot analysis on HeLa cell lysate using COX17 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-COX17 antibody

Description: 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.

Function: Copper metallochaperone essential for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase. Binds two copper ions and delivers them to the metallochaperone SCO1 which transports the copper ions to the Cu(A) site on the cytochrome c oxidase subunit II (MT-CO2/COX2).

Subunit Structure: Interacts with COA1. Interacts with the chaperone CHCHD4; this is important for correct folding and the formation of disulfide bonds that stabilize the structure.

Similarity: Belongs to the COX17 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031645
NCBI GeneID	10063
NCBI Accession #	NP_005685.1
NCBI GenBank Nucleotide #	NM_005694.1
UniProt Accession #	Q14061; Q3MHD6; B2R5D2; D3DN84
Molecular Weight	Observed: 7 kDa Predicted: 7 kDa
NCBI Official Full Name	cytochrome c oxidase copper chaperone
NCBI Official Synonym Full Names	cytochrome c oxidase copper chaperone COX17
NCBI Official Symbol	COX17
NCBI Protein Information	cytochrome c oxidase copper chaperone
UniProt Protein Name	Cytochrome c oxidase copper chaperone
UniProt Gene Name	COX17

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cox17-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321150>