

## Product datasheet for **TA339409**

### COX15 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-COX15 antibody: synthetic peptide directed towards the N terminal of human COX15. Synthetic peptide located within the following region: DWHLIKEMKPPTSQEEWAEFQRYQQFPEFKILNHDMTLTEFKFIWYMEY
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44 kDa
Gene Name:	COX15 cytochrome c oxidase assembly homolog
Database Link:	<a href="#">NP_004367</a> <a href="#">Entrez Gene 1355 Human</a> <a href="#">Q7KZN9</a>



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**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 essential for the biogenesis of COX formation and may function in the hydroxylation of heme O, according to the yeast mutant studies. This protein is predicted to contain 5 transmembrane domains localized in the mitochondrial inner membrane. Alternative splicing of this gene generates two transcript variants diverging in the 3' region. [provided by RefSeq, Jul 2008]

**Synonyms:**

CEMCOX2

**Note:**

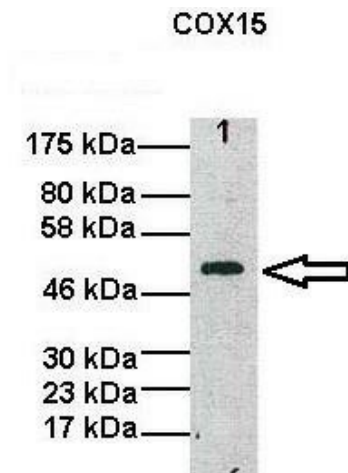
Immunogen Sequence Homology: Human: 100%; Pig: 93%; Rat: 93%; Horse: 93%; Mouse: 93%; Bovine: 93%; Guinea pig: 93%; Dog: 86%; Rabbit: 86%; Yeast: 82%; Zebrafish: 79%

**Protein Families:**

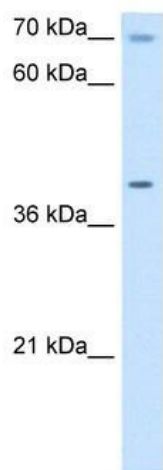
Transmembrane

**Protein Pathways:**

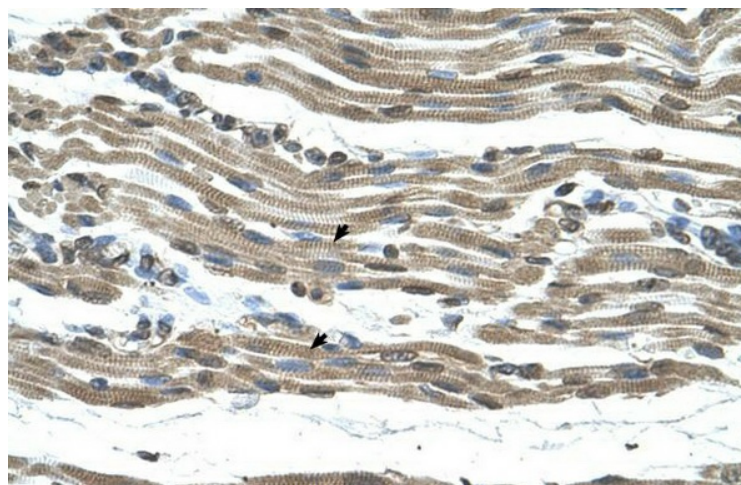
Metabolic pathways, Oxidative phosphorylation, Porphyrin and chlorophyll metabolism

**Product images:**

Lanes: Lane 1: 20ug human fibroblast mitochondria; Primary Antibody Dilution: 1: 1000; Secondary Antibody: Anti-Rabbit HRP; Secondary Antibody Dilution: 1: 5000; Gene Name: COX15; Submitted by: Oleh Khalimonchuk, University of Nebraska-Lincoln;



WB Suggested Anti-COX15 Antibody Titration: 5.0 ug/ml; Positive Control: HepG2 cell lysate. COX15 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



Rabbit Anti-COX15 Antibody; Paraffin Embedded Tissue: Human Muscle; Cellular Data: Skeletal muscle cells; Antibody Concentration: 4.0-8.0 ug/ml; Magnification: 400X - See more at: <http://www.avivasysbio.com/cox15-antibody-n-terminal-region-arp46442-t100>.