

Datasheet for ABIN2782632
anti-COX15 antibody (N-Term)



[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	COX15
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Dog, Rabbit, Zebrafish (Danio rerio), Cow, Guinea Pig, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COX15 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human COX15
Sequence:	DWHLIKEMKP PTSQEEWEAE FQRYQQFPEF KILNHDMTLT EFKFIWYMEY
Predicted Reactivity:	Cow: 93%, Dog: 86%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 86%, Rat: 93%, Yeast: 82%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against COX15. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	COX15
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Target Details

Alternative Name: COX15 ([COX15 Products](#))

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. 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 several transcript variants diverging in the 3' region including alternate poly A sites. In total, 2 different isoforms are encoded by these variants.

Alias Symbols: -

Protein Interaction Partner: UBC, CLN3, MRPS14, NDUFA12, TOMM7, MRPL15, LAMTOR3, SURF1, NDUFS8, NDUFS6, NDUFS4, NDUFA9, CYC1,

Protein Size: 388

Molecular Weight: 44 kDa

Gene ID: 1355

NCBI Accession: [NM_004376](#), [NP_004367](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 388 AA

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

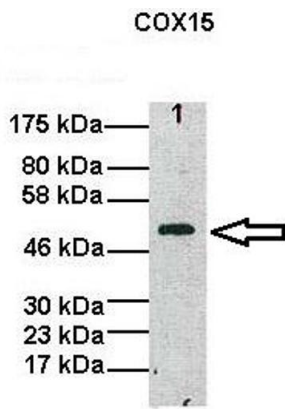
Product cited in:	Swenson, Cannon, Harris, Taylor, Fox, Khalimonchuk: "Analysis of Oligomerization Properties of Heme a Synthase Provides Insights into Its Function in Eukaryotes." in: The Journal of biological chemistry , Vol. 291, Issue 19, pp. 10411-25, (2016) (PubMed).
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Images

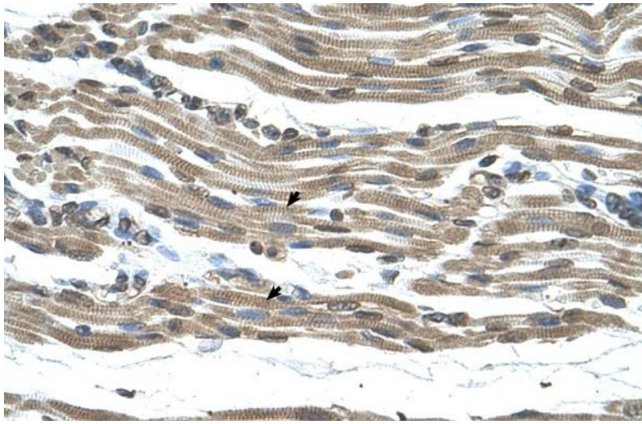


Western Blotting

Image 1. WB Suggested Anti-COX15 Antibody Titration: 5.0ug/ml Positive Control: HepG2 cell lysate COX15 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



See Immunoblot 2 Data and Customer Feedback for more Information



Western Blotting

Image 2. Lanes: Lane1: 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

Immunohistochemistry

Image 3. 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.html#sthash.41yjSrAu.dpuf>