Product Name: COX11 Rabbit Polyclonal Antibody
Catalog #: APRab09266

Summary

Production Name	COX11 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	COX11
Alternative Names	COX11; Cytochrome c oxidase assembly protein COX11; mitochondrial
Gene ID	1353.0
SwissProt ID	Q9Y6N1.The antiserum was produced against synthesized peptide derived from human COX11. AA range:51-100

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:5000.
Molecular Weight	31kD

Background

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer

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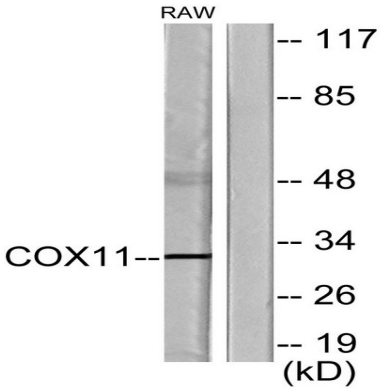
from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits 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 a heme A biosynthetic enzyme involved in COX formation, according to the yeast mutant studies. However, the studies in Rhodobacter sphaeroides suggest that this gene is not required for heme A biosynthesis, but required for stable formation of the Cu(B) and magnesium centers of COX. This human protein is predicted to cfunction:Exerts its effect at some terminal stage of cytochrome c oxidase synthesis, probably by being involved in the insertion of the copper B into subunit I.,similarity:Belongs to the COX11/ctaG family.,subunit:Interacts with CNNM4/ACDP4.,tissue specificity:Ubiquitous.,

Research Area

Oxidative phosphorylation;

Image Data



Western blot analysis of lysates from RAW264.7 cells, using COX11 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.