10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COX7A2L Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51900

Specification

COX7A2L Antibody - Product Information

Application	**WB, E**
Primary Accession	O14548
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**15 KDa**

COX7A2L Antibody - Additional Information

Gene ID 9167

Other Names
Cytochrome c oxidase subunit 7A-related protein, mitochondrial, COX7a-related protein, Cytochrome c oxidase subunit VIIa-related protein, EB1, COX7A2L, COX7AR, COX7RP

Dilution
WB~~1:1000
E~~N/A

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

COX7A2L Antibody - Protein Information

Name COX7A2L {ECO:0000303|PubMed:27545886, ECO:0000312|HGNC:HGNC:2289}

Function
Assembly factor that mediates the formation of some mitochondrial respiratory supercomplexes (respirasomes), thereby promoting oxidative phosphorylation and energy metabolism (PubMed:27545886, PubMed:30428348, PubMed:33727070, PubMed:36198313). Acts as a molecular adapter that associates with both mitochondrial respiratory complexes III (CIII) and IV (CIV), promoting their association (PubMed:27545886, PubMed:36198313). Mediates the formation of various mitochondrial respiratory supercomplexes, such as MCIII(2)IV(2), composed of two CIII and two CIV, and the CS-respirasome (MCI(1)III(2)IV(2)), composed of one CI, two CIII and two CIV (PubMed:<a

href="http://www.uniprot.org/citations/27545886" target="_blank">27545886, PubMed:30428348). Not involved in the formation of the canonical respirasome (MCI(1)III(2)IV(1)), composed of one CI, two CIII and one CIV (By similarity). The formation of different respirasomes is important for cell adaptation to oxygen conditions and prevent metabolic exhaustion: supercomplexes mediated by COX7A2L/SCAF1 are required to maintain oxidative phosphorylation upon low oxygen conditions and promote metabolic rewiring toward glycolysis (PubMed:36198313).

Cellular Location
Mitochondrion inner membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:Q99KD6}

COX7A2L Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COX7A2L Antibody - Images

COX7A2L Antibody - Background

May be a regulatory subunit of cytochrome c oxidase that mediates the higher level of energy production in target cells by estrogen.

COX7A2L Antibody - References

Watanabe T.,et al.Mol. Cell. Biol. 18:442-449(1998).
Schmidt T.R.,et al.Mol. Biol. Evol. 16:619-626(1999).
Lee N.,et al.Am. J. Hum. Genet. 68:397-409(2001).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Choudhary C.,et al.Science 325:834-840(2009).