

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:27545886).

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 Cytometry](#)
- [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).