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Anti-COX7A2L Antibody

Catalog # AP51900

Product Information

Application	WB
Primary Accession	O14548
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12615

Additional Information

Gene ID	9167
Other Names	COX7AR; COX7RP; Cytochrome c oxidase subunit 7A-related protein mitochondrial; COX7a-related protein; Cytochrome c oxidase subunit VIIa-related protein; EB1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human COX7A2L. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

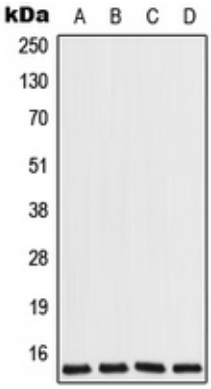
Name	COX7A2L {ECO:0000303|PubMed:27545886, ECO:0000312|HGNC:HGNC:2289}
Function	Assembly factor that mediates the formation of some mitochondrial respiratory supercomplexes (respirasomes), thereby promoting oxidative phosphorylation and energy metabolism (PubMed:27545886, PubMed:30428348, PubMed:33727070, 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, 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}

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).

Images



Western blot analysis of COX7A2L expression in Jurkat (A), HeLa (B), Raw264.7 (C), H9C2 (D) whole cell lysates. (Predicted band size: 12 kD; Observed band size: 13 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.