

COX7A2 Antibody (aa1-50)
Rabbit Polyclonal Antibody
Catalog # ALS14620**Specification**

COX7A2 Antibody (aa1-50) - Product Information

Application	WB, IHC-P, E
Primary Accession	P14406
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

COX7A2 Antibody (aa1-50) - Additional Information**Gene ID** 1347**Other Names**

Cytochrome c oxidase subunit 7A2, mitochondrial, Cytochrome c oxidase subunit VIIa-liver/heart, Cytochrome c oxidase subunit VIIa-L, Cytochrome c oxidase subunit VIIaL, COX7A2, COX7AL

Target/Specificity

COX7S/A2 Antibody detects endogenous levels of total COX7S/A2 protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

COX7A2 Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

COX7A2 Antibody (aa1-50) - Protein Information**Name** COX7A2**Synonyms** COX7AL**Function**

Component of the cytochrome c oxidase, the last enzyme in the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol- cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. Cytochrome c oxidase is the component of the respiratory chain that catalyzes the

reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix.

Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

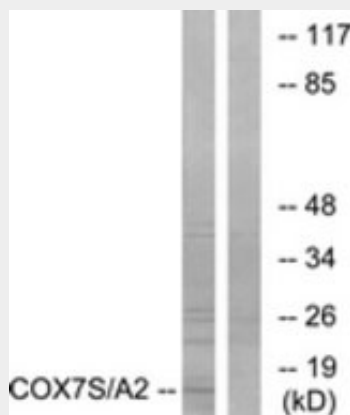
Volume

50 μ l

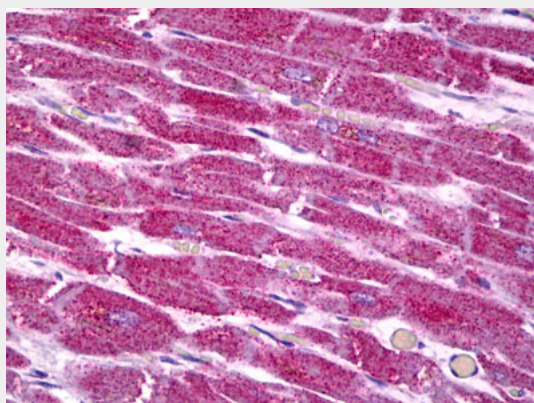
COX7A2 Antibody (aa1-50) - Protocols

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](#)

COX7A2 Antibody (aa1-50) - Images

Western blot of extracts from rat heart cells, using COX7S/A2 Antibody.



Anti-COX7A2 antibody IHC of human heart.

COX7A2 Antibody (aa1-50) - Background

This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

COX7A2 Antibody (aa1-50) - References

Fabrizi G.M.,et al.Nucleic Acids Res. 17:7107-7107(1989).
Huettemann M.,et al.Biochim. Biophys. Acta 1492:252-258(2000).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).