



COX7a2/3 rabbit pAb

Cat No.:ES4776

For research use only

Overview

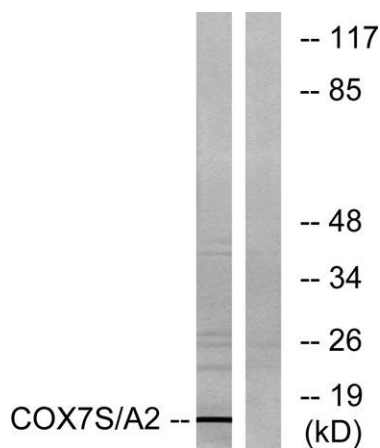
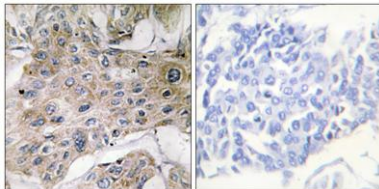
Product Name	COX7a2/3 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human COX7S/A2. AA range:1-50
Specificity	COX7a2/3 Polyclonal Antibody detects endogenous levels of COX7a2/3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cytochrome c oxidase subunit 7A2/3 mitochondrial
Gene Name	COX7A2/COX7A2P2
Cellular localization	Mitochondrion inner membrane .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	12kD
Human Gene ID	1347
Human Swiss-Prot Number	O60397/P14406
Alternative Names	COX7A2P2; COX7A3; COX7AL2; COX7AP2; Putative cytochrome c oxidase subunit 7A3; mitochondrial; Cytochrome c oxidase subunit VIIa 3; COX7A2; COX7AL; Cytochrome c oxidase subunit 7A2, mitochondrial; Cytochrome c oxidase subunit VIIa-liver/hear
Background	Cytochrome c oxidase, the terminal component of





the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of three catalytic subunits encoded by mitochondrial genes, and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, while the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 2 (liver isoform) of subunit VIIa, with this polypeptide being present in both muscle and non-muscle tissues. In addition to polypeptide 2, subunit VIIa includes polypeptide 1 (muscle isoform), which is present only in muscle tissues, and a related protein, which is present in all tissues. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 4 and 14.

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using COX7S/A2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from rat heart cells, using COX7S/A2 Antibody. The lane on the right is blocked with the synthesized peptide.

