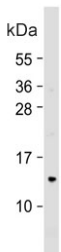
COX7A2L Antibody (F54648)

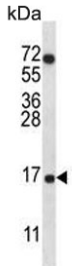
Catalog No.	Formulation	Size
F54648-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54648-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

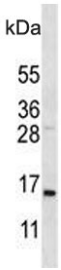
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	O14548
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This COX7A2L antibody is available for research use only.



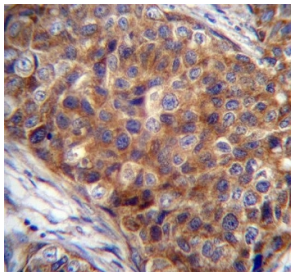
Western blot testing of human HepG2 cell lysate with COX7A2L antibody. Predicted molecular weight ~13 kDa.



Western blot testing of human A549 cell lysate with COX7A2L antibody. Predicted molecular weight ~13 kDa.



Western blot testing of mouse NIH 3T3 cell lysate with COX7A2L antibody. Predicted molecular weight ~13 kDa.



IHC testing of FFPE human breast carcinoma tissue with COX7A2L antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Cytochrome c oxidase (COX), 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 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen.

Application Notes

The stated application concentrations are suggested starting points. Titration of the COX7A2L antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 37-65 from the human protein was used as the immunogen for the COX7A2L antibody.

Storage

Aliquot the COX7A2L antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.