

For Research Use Only

COX7A2L Polyclonal antibody

Catalog Number: 11416-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number:

11416-1-AP

Size:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1980

GenBank Accession Number:

BC007095

GeneID (NCBI):

9167

UNIPROT ID:

O14548

Full Name:

cytochrome c oxidase subunit VIIa polypeptide 2 like

Calculated MW:

114 aa, 13 kDa

Observed MW:

14 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, rat brain tissue

IHC: human ovary tumor tissue, human breast cancer tissue

Background Information

Cytochrome c oxidase (COX) is the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. The mitochondrially encoded subunits function in electron transfer, and the nuclear encoded subunits may function in the regulation and assembly of the complex. COX7A2L (cytochrome c oxidase subunit 7A-related protein), also known as COX7AR or COX7RP, is an inner mitochondrial membrane protein. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. Recently it was found that DNA methylation of COX7A2L had a significant association with therapy response in patients with breast cancer. In Alzheimer's disease the expression of COX7A2L was reduced.

Notable Publications

Author	Pubmed ID	Journal	Application
Erika Fernández-Vizarra	36198313	Cell Metab	WB
Giorgia Benegiamo	36253618	Nat Metab	WB
I Ramírez-Camacho	30316780	Free Radic Biol Med	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

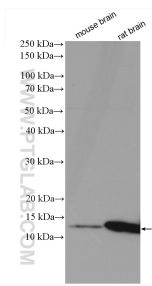
T: 4006900926

E: Proteintech-CN@ptglab.com

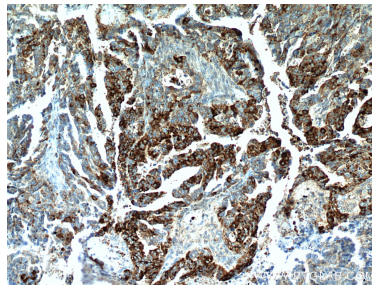
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

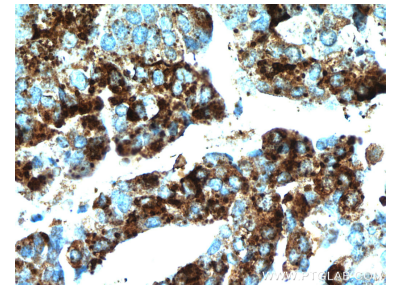
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11416-1-AP (COX7A2L antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 11416-1-AP (COX7A2L antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 11416-1-AP (COX7A2L antibody) at dilution of 1:50 (under 40x lens).