

For Research Use Only

# COX7A2L Polyclonal antibody

Catalog Number: 11416-1-AP

Featured Product

21 Publications



## Basic Information

### Catalog Number:

11416-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

### 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:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: mouse brain tissue, rat brain tissue

IHC: human ovary tumor tissue, human breast cancer tissue

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

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

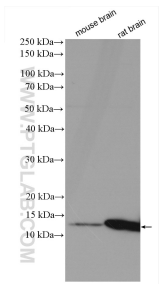
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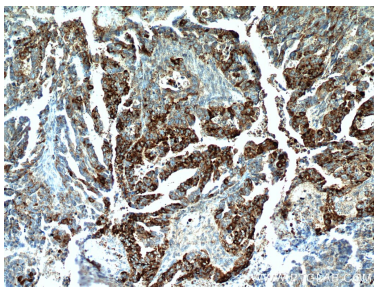
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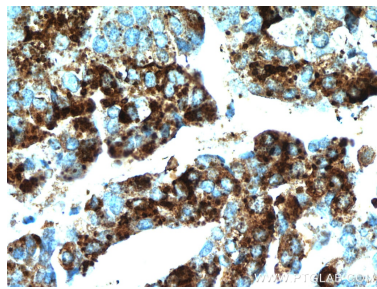
Selected Validation Data



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).