

# COX4I2 Polyclonal ANTIBODY

Catalog Number: 11463-1-AP

Featured Product

10 Publications

## Basic Information

**Catalog Number:**  
11463-1-AP

**Size:**  
50 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG1987

**GenBank Accession Number:**  
BC057779

**GeneID (NCBI):**  
84701

**Full Name:**  
cytochrome c oxidase subunit IV isoform 2 (lung)

**Calculated MW:**  
171aa, 20 kDa

**Observed MW:**  
17-18 kDa

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:20-1:200

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

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

**Positive Controls:**

**WB:** HepG2 cells; human brain tissue, MCF-7 cells, human heart tissue, human lung tissue, A375 cells

**IP:** HepG2 cells;

**IHC:** human ovary tumor tissue;

**IF:** HeLa cells;

## Background Information

COX4I2, also named as COX4L2 and COXIV-2, belongs to the cytochrome c oxidase IV family. It is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COXIV (cytochrome c oxidase IV) has two isoforms (isoform 1 and 2). Isoform 1 (COX4I1) is ubiquitously expressed and isoform 2 is highly expressed in lung tissues. This antibody was generated against full length COX4I2 protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Siddhesh Aras	27913209	Biochim Biophys Acta	WB
Guy Keller	30423473	Neurobiol Dis	IF
Theodoros Karampelas	24661240	Bioconj Chem	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

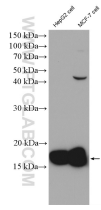
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

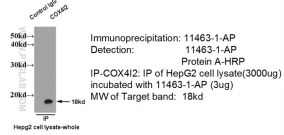
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data

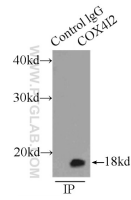


HepG2 cells were subjected to SDS PAGE followed by western blot with 11463-1-AP (COX412 antibody) at dilution of 1:1500 incubated at 4 degree celsius over night

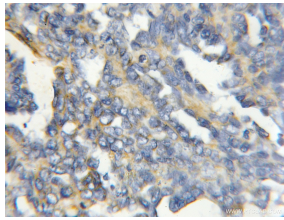
### IP of 11463-1-AP with HepG2 cell



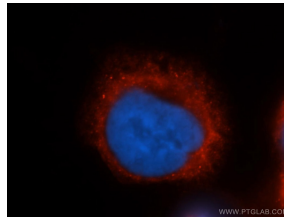
IP result of anti-COX412 (11463-1-AP for IP and Detection) with HepG2 cell lysate.



IP Result of anti-COX412 (IP:11463-1-AP, 3ug; Detection: 11463-1-AP 1:1000) with HepG2 cells lysate 8000ug.



Immunohistochemical of paraffin-embedded human ovary tumor using 11463-1-AP(COX412 antibody) at dilution of 1:50 (under 10x lens)



Immunofluorescent analysis of HeLa cells, using COX412 antibody 11463-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).