

For Research Use Only

COX4I2 Polyclonal antibody

Catalog Number: 11463-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

11463-1-AP

Size:

150ul, Concentration: 850 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1987

GenBank Accession Number:

BC057779

GeneID (NCBI):

84701

UNIPROT ID:

Q96KJ9

Full Name:

cytochrome c oxidase subunit IV isoform 2 (lung)

Calculated MW:

171 aa, 20 kDa

Observed MW:

17-18 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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/ICC: HepG2 cells, HeLa cells

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

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
Yongxin Mao	36172142	Front Oncol	IHC,IF
Siddhesh Aras	27913209	Biochim Biophys Acta	WB
Guy Keller	30423473	Neurobiol Dis	IF

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

*** 20ul sizes contain 0.1% BSA

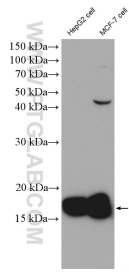
For technical support and original validation data for this product please contact:

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

E: proteintech@ptglab.com
W: ptglab.com

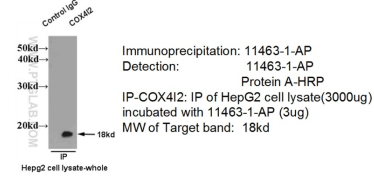
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

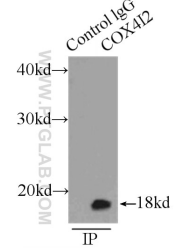


Various lysates were subjected to SDS PAGE followed by western blot with 11463-1-AP (COX4l2 antibody) at dilution of 1:1500 incubated at 4 degree celsius over night.

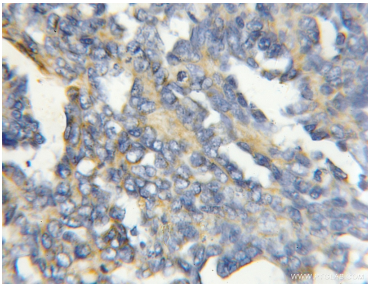
IP of 11463-1-AP with HepG2 cell



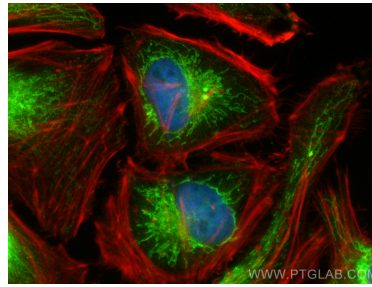
IP result of anti-COX4l2 (11463-1-AP for IP and Detection) with HepG2 cell lysate.



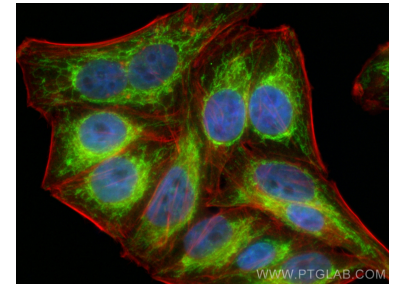
IP result of anti-COX4l2 (IP:11463-1-AP, 3ug; Detection:11463-1-AP 1:1000) with HepG2 cells lysate 8000ug.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 11463-1-AP (COX4l2 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using COX4l2 antibody (11463-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COX4l2 antibody (11463-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).