For Research Use Only

COXIV Polyclonal antibody

Catalog Number: 11242-1-AP

Featured Product

458 Publications



Basic Information

Catalog Number: GenBank Accession Number:

11242-1-AP BC021236 GeneID (NCBI):

Nanodrop: **UNIPROT ID:** P13073 Rabbit

150ul, Concentration: 650 ug/ml by

Isotype: cytochrome c oxidase subunit IV

isoform 1 IgG Immunogen Catalog Number: Calculated MW: AG1640 19.6 kDa Observed MW:

17-18 kDa

Full Name:

Purification Method: Antigen affinity purification

Recommended Dilutions: WB 1:5000-1:20000

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

protein lysate IHC 1:200-1:1000 IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF, IP, ChIP Species Specificity: human, mouse, rat Cited Species:

human, mouse, rat, pig, canine, goat

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: HeLa cells, HepG2 cells, rat liver tissue, rat brain tissue, MCF-7 cells, NIH/3T3 cells, Jurkat cells, mouse skeletal muscle tissue

IP: mouse skeletal muscle tissue,

IHC: human prostate cancer tissue, human pancreas cancer tissue, human heart tissue

IF/ICC: HepG2 cells,

Background Information

COX4I1, also named as COXI4 and COXIV-1, belongs to the cytochrome c oxidase IV family. It is one of the nuclearcoded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX4l 1 is a marker for mitochondria. It has two isoforms (isoform 1 and 2). Isoform 1(COX4l 1) is ubiquitously expressed and isoform 2 is highly expressed in lung tissues. COX411 is commonly used as a loading control. This antibody was generated against full length COX4I1 protein and cross reacts with COX4I2.

Notable Publications

Author	Pubmed ID	Journal	Application
Enrico Zampese	36179023	Sci Adv	IF
Lu Lu	36183875	Environ Pollut	WB
Yipeng Du	30279144	EBioMedicine	WB

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

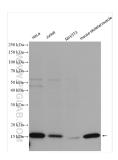
For technical support and original validation data for this product please contact:

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

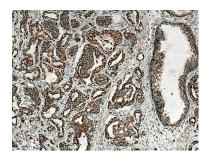
E: proteintech@ptglab.com W: ptglab.com

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

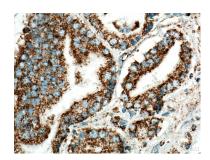
Selected Validation Data



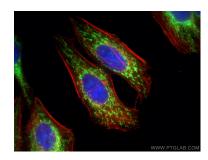
Various lysates were subjected to SDS PAGE followed by western blot with 11242-1-AP (COXIV antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



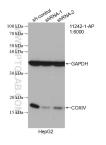
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 11242-1-AP (COXIV antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



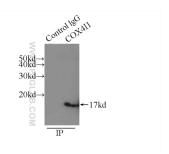
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 11242-1-AP (COXIV antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COXIV antibody (11242-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



WB result of COXIV antibody (11242-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-COXIV transfected HepG2 cells.



IP result of anti-COXIV (IP:11242-1-AP, 3ug; Detection:11242-1-AP 1:1000) with mouse skeletal muscle tissue lysate 3500ug.