For Research Use Only

COXIV Polyclonal antibody

Catalog Number:11242-1-AP

Featured Product

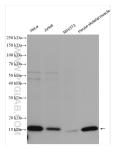
380 Publications



Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 11242-1-AP BC021236 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 650 $\mu g/ml$ by 1327 WB 1:5000-1:20000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P13073 IHC 1:200-1:1000 Rabbit Full Name: IF 1:50-1:500 Isotype cytochrome c oxidase subunit IV isoform 1 lgG Immunogen Catalog Number: Calculated MW: AG1640 19.6 kDa **Observed MW:** 17-18 kDa **Applications Tested Applications:** Positive Controls: WB, IP, IF, FC, IHC, ELISA WB: HeLa cells, HepG2 cells, rat liver tissue, rat brain **Cited Applications:** tissue, MCF-7 cells, NIH/3T3 cells, Jurkat cells, mouse WB, IP, IF, IHC, ChIP skeletal muscle tissue Species Specificity: IP : mouse skeletal muscle tissue, human, mouse, rat IHC : human prostate cancer tissue, human pancreas **Cited Species:** cancer tissue, human heart tissue human, goat, rat, mouse, pig, canine IF : HepG2 cells, Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 COX4l 1, also named as COX4 and COXIV-1, belongs to the cytochrome c oxidase IV family. It is one of the nuclear-**Background Information** coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX4l1 is a marker for mitochondria. It has two isoforms (isoform 1 and 2). Isoform 1(COX4l1) 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 **Environ Pollut** Lu Lu 36183875 WB EBioMedicine WB 30279144 Yipeng Du 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) W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

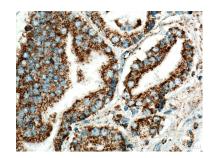
Selected Validation Data



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.



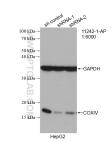
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 11242-1-AP (COXIV antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



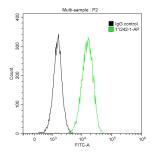
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 11242-1-AP (COXIV antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



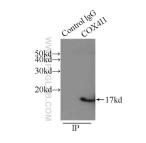
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COXIV antibody (11242-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



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.



1X10^6 HepG2 cells were intracellularly stained with 0.2 ug Anti-Human COXIV (11242-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.



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