

For Research Use Only

# COXIV Monoclonal antibody

Catalog Number: 66110-1-Ig **32 Publications**



## Basic Information

<b>Catalog Number:</b> 66110-1-Ig	<b>GenBank Accession Number:</b> BC021236	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 2000 ug/ml	<b>GeneID (NCBI):</b> 1327	<b>CloneNo.:</b> 2A7B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P13073	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> cytochrome c oxidase subunit IV isoform 1	
<b>Immunogen Catalog Number:</b> AG20551	<b>Calculated MW:</b> 19.6 kDa	
	<b>Observed MW:</b> 17-18 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, IP	<b>WB:</b> A431 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, LNCaP cells, K-562 cells
<b>Species Specificity:</b> human	<b>IHC:</b> human prostate cancer tissue, human pancreas tissue, human heart tissue
<b>Cited Species:</b> human, mouse, rat	

**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

COX4l1, also named as COX4 and COXIV-1, 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. 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. COX4l1 is commonly used as a loading control. This antibody is specific to COX4l1 and do not cross reacts with COX4l2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zi-Chao Wang	36163178	Cell Death Dis	WB
Xingfeng Liu	36131205	Nat Metab	WB
Quanfu Li	36289190	Cell Death Dis	WB

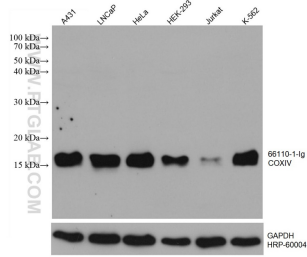
## Storage

**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

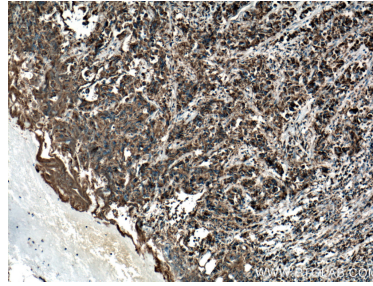
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

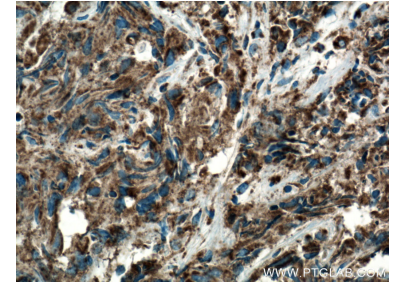
## Selected Validation Data



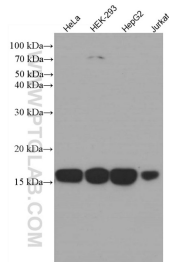
Various lysates were subjected to SDS PAGE followed by western blot with 66110-1-Ig (COXIV antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66110-1-Ig (COXIV antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66110-1-Ig (COXIV antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66110-1-Ig (COXIV antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.