

For Research Use Only

COXIV Monoclonal antibody

Catalog Number: 66110-1-Ig 29 Publications



Basic Information

Catalog Number: 66110-1-Ig	GenBank Accession Number: BC021236	Purification Method: Protein G purification
Size: 2000 µg/ml	GeneID (NCBI): 1327	CloneNo.: 2A7B2
Source: Mouse	UNIPROT ID: P13073	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF 1:50-1:500
Isotype: IgG1	Full Name: cytochrome c oxidase subunit IV isoform 1	
Immunogen Catalog Number: AG20551	Calculated MW: 19.6 kDa	
	Observed MW: 17-18 kDa	

Applications

Tested Applications:
FC, IF/ICC, IHC, WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human

Cited Species:
human, rat, mouse

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: A431 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, LNCaP cells, K-562 cells

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

IF: HepG2 cells,

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 pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

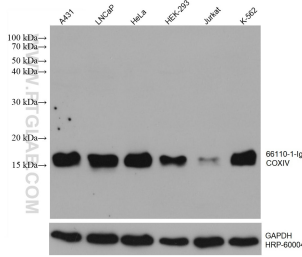
T: 4006900926

E: Proteintech-CN@ptglab.com

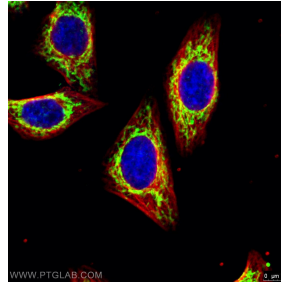
W: ptgcn.com

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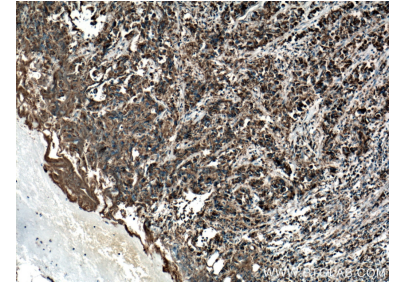
Selected Validation Data



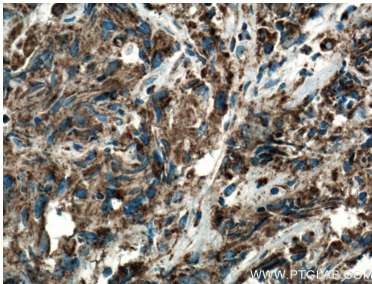
Various lysates were subjected to SDS PAGE followed by western blot with 66110-1-Ig (COXIV antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



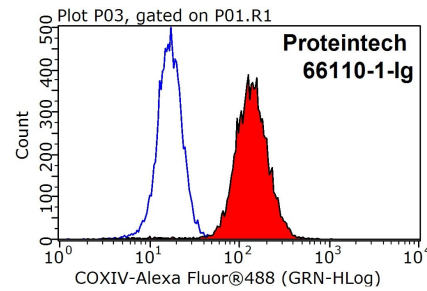
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66110-1-Ig (COXIV antibody, 1:100) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L); Red is the staining with alpha Tubulin antibody (11224-1-AP, 1:100).



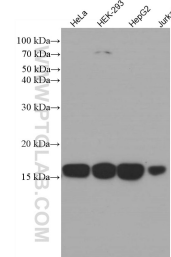
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66110-1-Ig (COXIV antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ HeLa cells were stained with 0.2ug COXIV antibody (66110-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.



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.