

For Research Use Only

COXIV Recombinant antibody, PBS Only

Catalog Number: 82916-1-PBS

Featured Product



Basic Information

Catalog Number:

82916-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1640

GenBank Accession Number:

BC021236

GeneID (NCBI):

1327

UNIPROT ID:

P13073

Full Name:

cytochrome c oxidase subunit IV isoform 1

Calculated MW:

19.6 kDa

Observed MW:

17-18 kDa

Purification Method:

Protein A purification

CloneNo.:

3K20

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

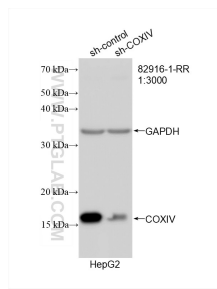
For technical support and original validation data for this product please contact:

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

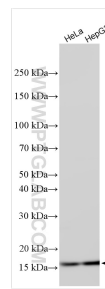
E: proteintech@ptglab.com
W: ptglab.com

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

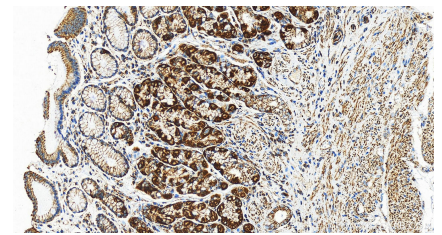
Selected Validation Data



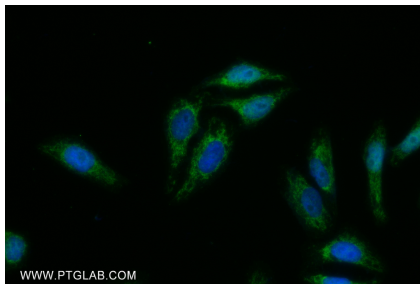
WB result of COXIV antibody (82916-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-COXIV transfected HepG2 cells. This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



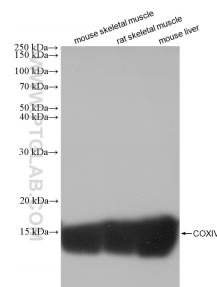
Various lysates were subjected to SDS PAGE followed by western blot with 82916-1-RR (COXIV antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



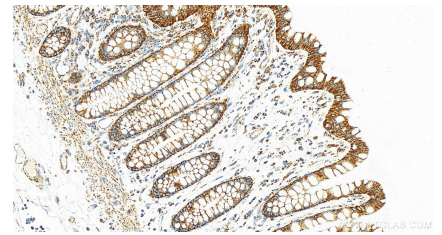
Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 82916-1-RR (COXIV antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



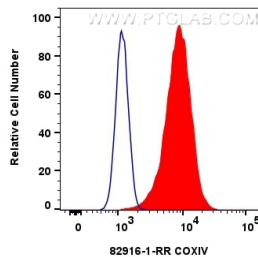
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COXIV antibody (82916-1-RR, Clone: 3K20) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



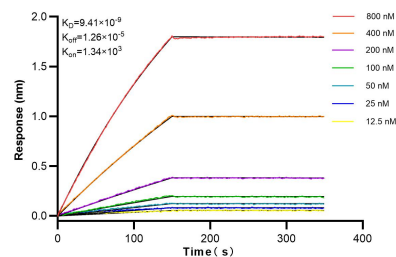
Various lysates were subjected to SDS PAGE followed by western blot with 82916-1-RR (COXIV antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 82916-1-RR (COXIV antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



1×10^6 HeLa cells were intracellularly stained with 0.25 ug COXIV Recombinant antibody (82916-1-RR, Clone:3K20) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 82916-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82916-1-RR against Human COXIV were performed. The affinity constant is 9.41 nM.