For Research Use Only

COX5B Polyclonal antibody

Catalog Number:11418-2-AP Featured Product 13 Publications

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Basic Information

Catalog Number:
11418-2-AP

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1986

GenBank Accession Number:
BC006229

GeneID (NCBI):
1329

UNIPROT ID:
P10606

Full Name:
cytochrome c oxidase subunit Vb

Calculated MW:
129 aa, 14 kDa

Observed MW:
14 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:250-1:1000
IF 1:50-1:500

Applications

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

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, goat, mouse, monkey

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, L02 cells, mouse liver tissue, rat liver tissue

IHC : human liver cancer tissue, human breast cancer tissue

IF : HeLa cells,

Background Information

COX5B belongs to the cytochrome c oxidase subunit 5B family. It is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX5B and other 3 genes CKB, HBB, MBP are involved in respiration.(PMID:21295140)

Notable Publications

Author	Pubmed ID	Journal	Application
Weicheng Wu	30237463	Cell Death Dis	WB
Sara Cogliati	27775717	Nature	WB
Ricarda Richter-Dennerlein	27693358	Cell	WB

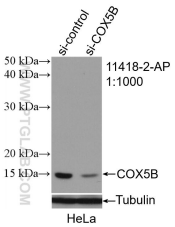
Storage

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

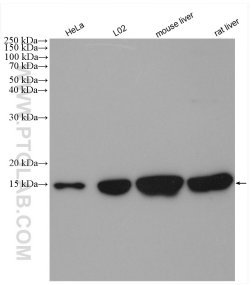
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

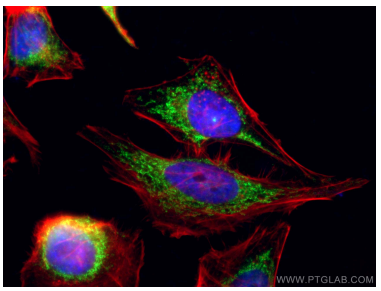
Selected Validation Data



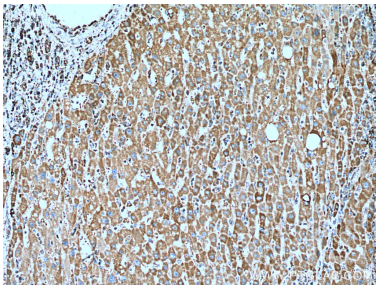
WB result of COX5B antibody (11418-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-COX5B transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 11418-2-AP (COX5B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 11418-2-AP (COX5B antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Phalloidine stains the F-actin.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11418-2-AP (COX5B antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).