

For Research Use Only

CPOX Polyclonal antibody

Catalog Number: 12211-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

12211-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2858

GenBank Accession Number:

BC023551

GeneID (NCBI):

1371

UNIPROT ID:

P36551

Full Name:

coproporphyrinogen oxidase

Calculated MW:

454 aa, 50 kDa

Observed MW:

36 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, 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: HepG2 cells, K-562 cells, Jurkat cells, mouse liver tissue, rat liver tissue

IP: HepG2 cells,

IHC: human liver cancer tissue, human liver tissue

Background Information

CPOX (Coproporphyrinogen-III oxidase, mitochondrial) is also named as CPO and CPX. Human CPO is a 76 kDa protein that is active as a homodimer in the mitochondrial intermembrane space (PMID:16159891). Mutations in human CPO gene predict the clinical outcome of the disease, with either hepatic hereditary coproporphyrria or hematological manifestations of erythropoietic harderoporphyria. CPOX has a transit peptide of 110 aa and the chain contains 344 aa.

Notable Publications

Author	Pubmed ID	Journal	Application
Takahashi Kenkichi K	21824890	Neuro Oncol	IHC
Mario Mischkulnig	35665365	Front Med (Lausanne)	IHC
Michelle Grace Acoba	33730581	Cell Rep	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

*** 20ul sizes contain 0.1% BSA

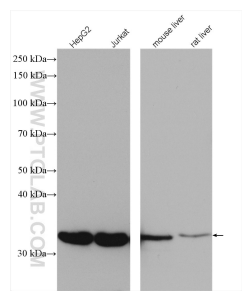
For technical support and original validation data for this product please contact:

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

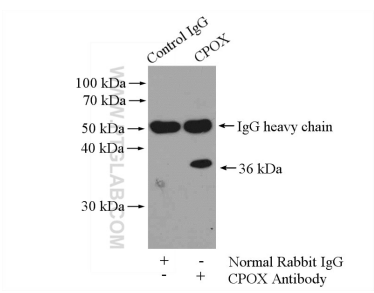
E: proteintech@ptglab.com
W: ptglab.com

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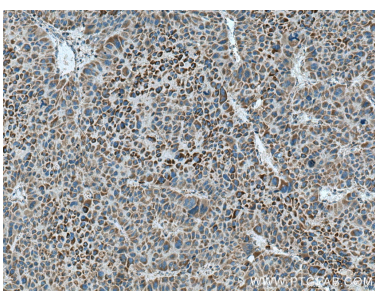
Selected Validation Data



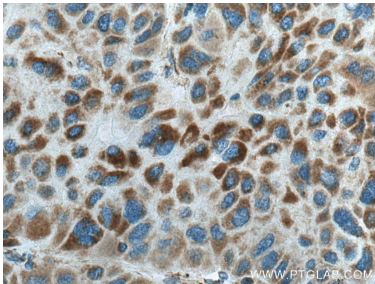
Various lysates were subjected to SDS PAGE followed by western blot with 12211-1-AP (CPOX antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CPOX (IP:12211-1-AP, 4ug; Detection:12211-1-AP 1:500) with HepG2 cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12211-1-AP (CPOX antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12211-1-AP (CPOX antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).