

For Research Use Only

CPOX Polyclonal antibody

Catalog Number: 12211-1-AP

Featured Product

7 Publications



Basic Information

| | | |
|--|---|---|
| Catalog Number: 12211-1-AP | GenBank Accession Number: BC023551 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 1371 | Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB |
| Source: Rabbit | Full Name: coproporphyrinogen oxidase | Calculated MW: 454 aa, 50 kDa |
| Isotype: IgG | Observed MW: 36 kDa | Immunogen Catalog Number: AG2858 |

Applications

| | |
|---|--|
| Tested Applications: IHC, IP, WB, ELISA | Positive Controls: WB : HepG2 cells, human liver tissue, Jurkat cells, mouse liver tissue, K-562 cells, rat liver tissue |
| Cited Applications: IF, IHC, WB | IP : HepG2 cells, |
| Species Specificity: human, mouse, rat | IHC : human liver cancer tissue, human liver tissue |
| 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

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 coproporphyrin or hematological manifestations of erythropoietic protoporphyria. 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

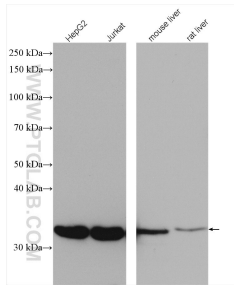
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

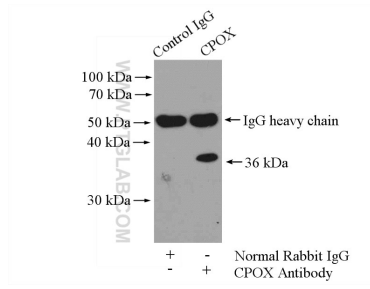
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

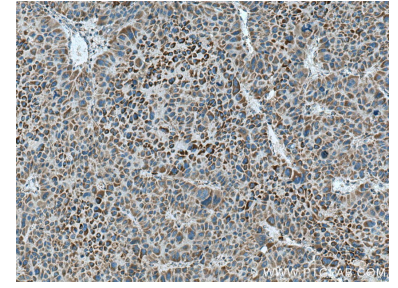
Selected Validation Data



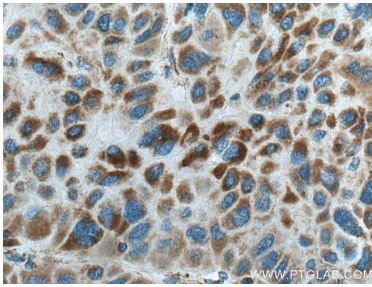
Various lysates were subjected to SDS PAGE followed by western blot with 12211-1-AP (CPOX antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).