

# CPOX Polyclonal antibody

Catalog Number: 16724-1-AP

## Basic Information

**Catalog Number:**

16724-1-AP

**Size:**

700 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10164

**GenBank Accession Number:**

BC017210

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Species Specificity:**

human, mouse, rat

**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, human liver tissue, K-562 cells, mouse liver tissue, rat liver tissue

**IP :** HepG2 cells,

**IHC :** human liver tissue, human testis 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 protoporphyria. CPOX has a transit peptide of 110 aa and the chain contains 344 aa.

## Storage

**Storage:**

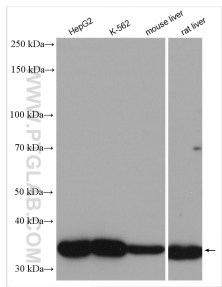
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

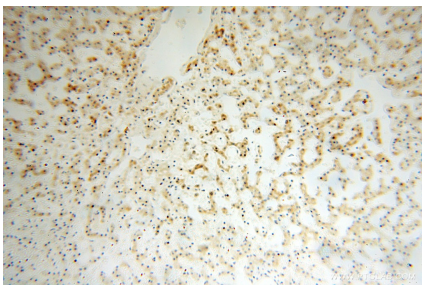
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

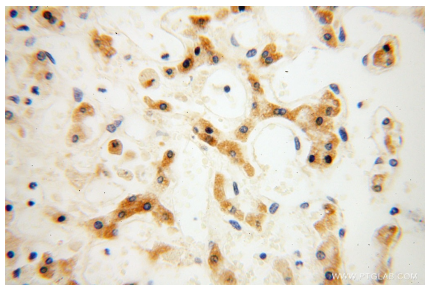
Selected Validation Data



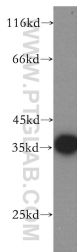
Various lysates were subjected to SDS PAGE followed by western blot with 16724-1-AP (CPOX antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



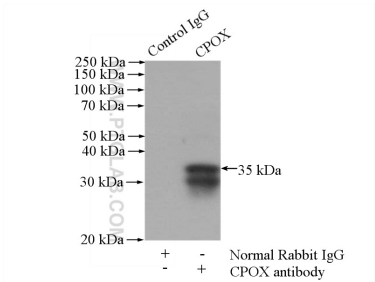
Immunohistochemical analysis of paraffin-embedded human liver using 16724-1-AP (CPOX antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 16724-1-AP (CPOX antibody) at dilution of 1:100 (under 40x lens).



K-562 cells were subjected to SDS PAGE followed by western blot with 16724-1-AP (CPOX antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-CPOX (IP:16724-1-AP, 4ug; Detection:16724-1-AP 1:1000) with HepG2 cells lysate 1800ug.