

# Human CPOX antibody

Catalog Number: ATGA0414

## PRODUCT INFORMATION

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**Catalog number**

ATGA0414

**Clone No.**

AT36B10

**Product type**

Monoclonal Antibody

**UnitProt No.**

P36551

**NCBI Accession No.**

NP\_000088

**Alternative Names**

Coproporphyrinogen-III oxidase mitochondrial precursor, Coproporphyrinogen-III oxidase, mitochondrial precursor, CPO, CPX, HCP

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human CPOX (111-454aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

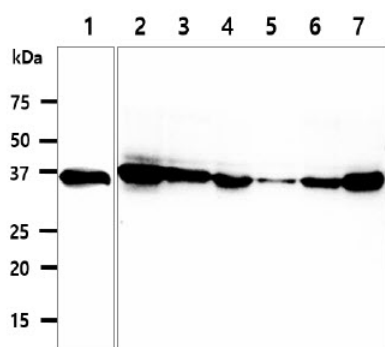
Coproporphyrinogen-III oxidase, mitochondrial precursor, also known as CPOX, is a 454 amino acid mitochondrial enzyme that is localized to the inner membrane space of erythrocytes. It participates in the sixth step of heme biosynthesis by catalyzing the formation of protoporphyrinogen IX from coproporphyrinogen III. Mutations in human CPOX gene predict the clinical outcome of the disease, with either hepatic hereditary coproporphyrinemia or hematological manifestations of erythropoietic harderoporphyria.

### General References

- Kim DH., et al. (2013) J Biochem. 154(6): 551-9.
- Barbaro M., et al. (2012) Clin Genet. 81(3): 249-56.
- Rosipal R., et al. (1999) Hum Mutat. 13(1): 44-53.

## DATA

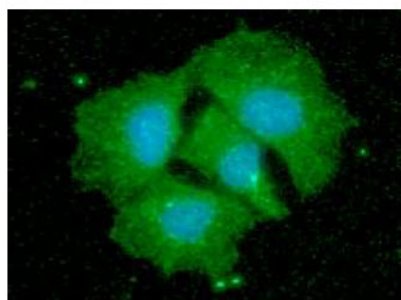
### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CPOX antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: Recombinant protein CPOX
- Lane 2.: 293T cell lysate
- Lane 3.: HepG2 cell lysate
- Lane 4.: A549 cell lysate
- Lane 5.: Jurkat cell lysate
- Lane 6.: K562 cell lysate
- Lane 7.: LnCaP cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CPOX in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CPOX antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).