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Human CPOX antibody

Catalog Number: ATGA0414

PRODUCT INFORMATION

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

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

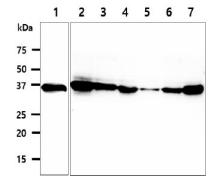
Coproporphyrinogen-III oxidase, mitochondrial precursor, also known as CPOX, is a 454 amino acid mitochondrial enzyme that is localized to the inner membrane space of erythrocytes. It participates in the sixth step of heme biosynthesis by catalyzing the formation of protoporphyrinogen IX from coproporphyrinogen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

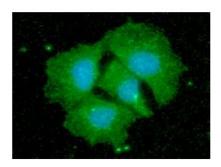


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CPOX antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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).

