

Mouse anti-Human CPOX Monoclonal Antibody | anti-CPOX antibody

CPOX antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48225	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

CPOX; Monoclonal Antibody; CPOX antibody; Coproporphyrinogen-III oxidase mitochondrial precursor; Coproporphyrinogen-III oxidase; mitochondrial precursor; CPO; CPX; HCP; anti-CPOX antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT36B10
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	454
Applicable Applications for anti-CPOX antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CPOX (111-454aa) purified from E. coli
Clone Note	Anti-human CPOX mAb, clone AT36B10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CPOX protein
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

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).



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-CPOX antibody	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.
Product Categories/Family for anti-CPOX antibody	Signal Transduction; Metabolism
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.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	41393599
NCBI GeneID	1371
NCBI Accession #	NP_000088
NCBI GenBank Nucleotide #	NM_000097.5
UniProt Accession #	P36551; Q14060; Q53F08; Q8IZ45; Q96AF3; A8K275; B4DSD5
Molecular Weight	30,383 Da
NCBI Official Full Name	oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
NCBI Official Synonym Full Names	coproporphyrinogen oxidase
NCBI Official Symbol	CPOX
NCBI Official Synonym Symbols	CPO; CPX; HCP
NCBI Protein Information	oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
UniProt Protein Name	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
UniProt Gene Name	CPOX
UniProt Synonym Gene Names	CPO; CPX; COX; Coprogen oxidase; Coproporphyrinogenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.