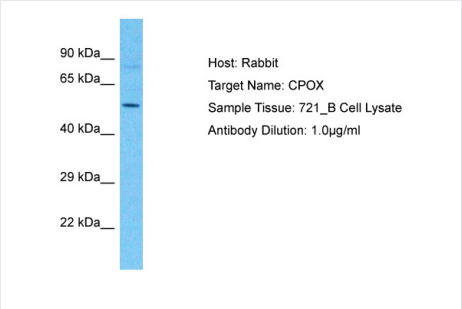
CPOX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CPOX, Polyclonal Antibody
Full Product Name	CPOX Antibody - C-terminal region
Product Gene Name	anti-CPOX antibody
Product Synonym Gene Name	CPOX; CPO; CPX;
Immunogen Sequence	Synthetic peptide located within the following region: EVFRFVQSCA RAVVPSYIPL VKKHCDDSFT PQEKLWQQLR RGRYVEFNLL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CPOX peptide (MBS3241503) is used for blocking the activity of CPOX antibody (MBS3216603)
Molecular Weight	49kDa
OMIM	phenotype 612732
3D Structure	ModBase 3D Structure for P36551
Immunogen	The immunogen is a synthetic peptide directed towards the C-terminal region of Human CPOX
Product Categories/Family for anti-CPOX antibody	Polyclonal; Membrane Protein; Mitochondria; Disease Related
Applications Tested/Suitable for anti-CPOX antibody	Western Blot (WB)
Related Product Information for anti-CPOX antibody	This is a rabbit polyclonal antibody against CPOX. It was validated on Western Blot Target Description: The protein encoded by this gene is the sixth enzyme of the heme biosynthetic pathway. The encoded enzyme is soluble and found in the intermembrane space of mitochondria. This enzyme catalyzes the stepwise oxidative decarboxylation of coproporphyrinogen III to protoporphyrinogen IX, a precursor of heme. Defects in this gene are a cause of hereditary coproporphyria (HCP).
Other Notes	Small volumes of anti-CPOX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CPOX purchase	MBS3216603 is an antibody targeting CPOX. Also known as CPOX Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CPOX antibody
Host: RabbitTarget Name: CPOXSample Type: 721_B Whole Cell lysatesAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPOX. It may not necessarily be applicable to this product.

NCBI GI #	41393599
NCBI GeneID	1371
NCBI Accession #	NP_000088
UniProt Primary Accession #	P36551
UniProt Related Accession #	P36551
GenBank Nucleotide #	NM_000097.7
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	COX; CPO; CPX; HCP
UniProt Protein Name	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
Protein Family	Oxygen-dependent coproporphyrinogen-III oxidase
UniProt Gene Name	CPOX
UniProt Synonym Gene Names	CPO; CPX; COX; Coprogen oxidase; Coproporphyrinogenase
UniProt Entry Name	HEM6_HUMAN
NCBI Protein Information	oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
NCBI Summary for CPOX	The protein encoded by this gene is the sixth enzyme of the heme biosynthetic pathway. The encoded enzyme is soluble and found in the intermembrane space of mitochondria. This enzyme catalyzes the stepwise oxidative decarboxylation of coproporphyrinogen III to protoporphyrinogen IX, a precursor of heme. Defects in this gene are a cause of hereditary coproporphyria (HCP).[provided by RefSeq, Oct 2009]

UniProt Comments for CPOX	CPOX: Key enzyme in heme biosynthesis. Catalyzes the oxidative decarboxylation of propionic acid side chains of rings A and B of coproporphyrinogen III. Defects in CPOX are the cause of hereditary coproporphyria (HCP). HCP is an acute hepatic porphyria and an autosomal dominant disease characterized by neuropsychiatric disturbances and skin photosensitivity. Biochemically, there is an overexcretion of coproporphyrin III in the urine and in the feces. HCP is clinically characterized by attacks of abdominal pain, neurological disturbances, and psychiatric symptoms. The symptoms are generally manifested with rapid onset, and can be precipitated by drugs, alcohol, caloric deprivation, infection, endocrine factors or stress. A severe variant form is harderoporphyria, which is characterized by earlier onset attacks, massive excretion of harderoporphyrin in the feces, and a marked decrease of coproporphyrinogen IX oxidase activity. Belongs to the aerobic coproporphyrinogen-III oxidase family. Protein type: Oxidoreductase; EC 1.3.3.3; Mitochondrial; Cofactor and Vitamin Metabolism - porphyrin and chlorophyll Chromosomal Location of Human Ortholog: 3q12 Cellular Component: mitochondrion; cytoplasm; mitochondrial inner membrane; mitochondrial intermembrane space Molecular Function: coproporphyrinogen oxidase activity; protein homodimerization activity; structural constituent of eye lens Biological Process: response to arsenic; response to methylmercury; response to lead ion; porphyrin metabolic process; response to insecticide; protoporphyrinogen IX biosynthetic process; response to iron ion; heme biosynthetic process Disease: Coproporphyria, Hereditary
Research Articles on CPOX	**1.** The monomer form of mutated CPOX did not show any activity and homodimeric enzymes derived from Hereditary coproporphyria (HCP) mutant showed low activity (<20% of the control).
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