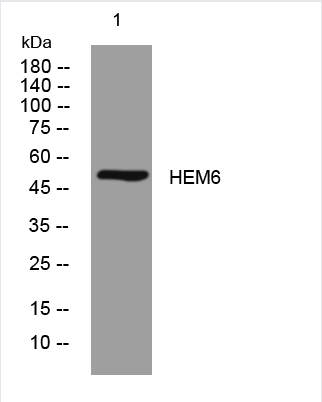
HEM6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HEM6, Polyclonal Antibody
Full Product Name	HEM6 Antibody
Product Gene Name	anti-HEM6 antibody
Product Synonym Names	HEM6
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of HEM6 at Human/Mouse/Rat
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	454
OMIM	phenotype 612732
3D Structure	ModBase 3D Structure for P36551
Immunogen	Synthesized peptide derived from human HEM6 AA range: 265-315
Modification	Unmodified/Total
Product Categories/Family for anti-HEM6 antibody	Primary Antibodies
Applications Tested/Suitable for anti-HEM6 antibody	Western Blot (WB)
Application Notes for anti-HEM6 antibody	WB: 1:500-2000
Related Product Information for anti-HEM6 antibody	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]
Other Notes	Small volumes of anti-HEM6 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 HEM6 purchase	MBS9520185 is an antibody targeting HEM6. Also known as HEM6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-HEM6 antibody
Western blot analysis of lysates from PC-12 cells, primary antibody was diluted at 1:1000, 4 degree over night

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HEM6. It may not necessarily be applicable to this product.

NCBI GI #	67476671
NCBI GeneID	1371
NCBI Accession #	P36551.3
UniProt Primary Accession #	P36551
UniProt Secondary Accession #	Q14060; Q53F08; Q8IZ45; Q96AF3; A8K275; B4DSD5
UniProt Related Accession #	P36551
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
UniProt Protein Name	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
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; COX; coprogen oxidase; coproporphyrinogenase

UniProt Comments for HEM6	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 HEM6	**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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