PPOX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPOX, Polyclonal Antibody
Full Product Name	PPOX (Protoporphyrinogen Oxidase, PPO, MGC8485) (MaxLight 405)
Product Gene Name	anti-PPOX antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PPOX.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	50,765 Da
OMIM	phenotype 600923
3D Structure	ModBase 3D Structure for P50336
Immunogen	Full length human PPOX, aa1-477 (NP_000300.1).
Immunogen Sequence	MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLVESSERLGGWIRSVRGPNGAIFELGPRGIRPAGALGARTLLLVSELGLDSEVLPVRGDHPAAQNRFLY
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PPOX antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-PPOX antibody	Western Blot (WB)
Application Notes for anti-PPOX antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PPOX antibody	This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporp

Other Notes	Small volumes of anti-PPOX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for PPOX purchase	MBS6390356 is an antibody targeting PPOX. Also known as PPOX (Protoporphyrinogen Oxidase, PPO, MGC8485) (MaxLight 405). Reactive in Huma

ADDITIONAL DETAILS

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

NCBI GI #	4506001
NCBI GeneID	5498
NCBI Accession #	NP_000300.1
UniProt Primary Accession #	P50336
UniProt Secondary Accession #	Q5VTW8; D3DVG0
UniProt Related Accession #	P50336
GenBank Nucleotide #	NM_000309
NCBI Official Full Name	protoporphyrinogen oxidase
NCBI Official Synonym Full Names	protoporphyrinogen oxidase
NCBI Official Symbol	PPOX
NCBI Official Synonym Symbols	VP; PPO; V290M
UniProt Protein Name	Protoporphyrinogen oxidase
UniProt Gene Name	PPOX
UniProt Synonym Gene Names	PPO
UniProt Entry Name	PPOX_HUMAN
NCBI Protein Information	protoporphyrinogen oxidase
UniProt Comments for PPOX	PPOX: Catalyzes the 6-electron oxidation of protoporphyrinogen-IX to form protoporphyrin-IX. Defects in PPOX are the cause of variegate porphyria (VP). Porphyrias are inherited defects in the biosynthesis of heme, resulting in the accumulation and increased excretion of porphyrins or porphyrin precursors. They are classified as erythropoietic or hepatic, depending on whether the enzyme deficiency occurs in red blood cells or in the liver. PV is the most common form of porphyria in South Africa. It is characterized by skin hyperpigmentation and hypertrichosis, abdominal pain, tachycardia, hypertension and neuromuscular disturbances. High fecal levels of protoporphyrin and coproporphyrin, increased urine uroporphyrins and iron overload are typical markers of the disease. Belongs to the protoporphyrinogen oxidase family. Protein type: Cofactor and Vitamin Metabolism - porphyrin and chlorophyll; Oxidoreductase; Mitochondrial; EC 1.3.3.4 Chromosomal Location of Human Ortholog: 1q22 Cellular Component: mitochondrial membrane; mitochondrial intermembrane space; integral to mitochondrial inner membrane; intrinsic to mitochondrial inner membrane Molecular Function: protoporphyrinogen oxidase activity; FAD binding Biological Process: response to drug; porphyrin metabolic process; protoporphyrinogen IX biosynthetic process; porphyrin biosynthetic process; heme biosynthetic process Disease: Porphyria Variegata
Research Articles on PPOX	**1.** GAPDH and protoporphyrinogen oxidase were shown to have higher expression in faster growing cell lines and primary tumors. Pharmacologic inhibition of GAPDH or PPOX reduced the growth of colon cancer cells in vitro

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