Protoporphyrinogen Oxidase (PPOX) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Protoporphyrinogen Oxidase (PPOX), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Protoporphyrinogen Oxidase (PPOX)
Product Gene Name	anti-PPOX antibody
Product Synonym Names	VP; PPO; V290M; Variegate Porphyria
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat, Human, Mouse
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: PPOX (MBS2028087) FITC Conjugated Antibody: PPOX (MBS2077458)
Matching Pairs	FITC Conjugated Antibody: PPOX (MBS2077458) Immunogen: PPOX (MBS2030110)
Molecular Weight	50,765 Da
OMIM	D38537 mRNA
3D Structure	ModBase 3D Structure for P50336
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	PPOX (Gly9~Ala300)
Conjugation	FITC
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2028087
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PPOX antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-PPOX antibody	MBS2077458 is an antibody targeting PPOX. Also known as FITC-Linked Polyclonal Antibody to Protoporphyrinogen Oxidase (PPOX). Reactive in Rat, Human, Mouse. Host: Rabbit.
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 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.

ADDITIONAL DETAILS

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

NCBI GI #	170650615
NCBI GeneID	5498
NCBI Accession #	NP_001116236.1

UniProt Primary Accession #	P50336
UniProt Secondary Accession #	Q5VTW8; D3DVG0
UniProt Related Accession #	P50336
GenBank Nucleotide #	NM_001122764.1
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
NCBI Protein Information	protoporphyrinogen oxidase
NCBI Summary for PPOX	This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporphyrin IX. Mutations in this gene cause variegate porphyria, an autosomal dominant disorder of heme metabolism resulting from a deficiency in protoporphyrinogen oxidase, an enzyme located on the inner mitochondrial membrane. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]
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; EC 1.3.3.4; Mitochondrial; Oxidoreductase Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: intrinsic to mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrial membrane Molecular Function: FAD binding; protoporphyrinogen oxidase activity Biological Process: heme biosynthetic process; porphyrin 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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