

Product Information

MemDX™ Membrane Protein Human PPOX (Protoporphyrinogen oxidase) for Antibody

Discovery

Cat. No.: **MP1036X**

This product is for research use only and is not intended for diagnostic use.

This product is a 77.2 kDa Human PPOX membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

PPOX

Protein Length

Full-length

Molecular Weight

77.2 kDa

Sequence

MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLVESSERLGGWIRSVRGPNGAIFELGPRGIRPAGALGARTLLLVSSELGLDSEVL

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PPOX

Full Name

Protoporphyrinogen oxidase

Introduction

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.

Alternative Names

VP; PPO; V290M; protoporphyrinogen oxidase; popeye domain-containing protein 3; popeye protein 3

Gene ID

[5498](#)

UniProt ID

[P50336](#)