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PPOX Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PPOX.
Catalog # AT3407a

Product Information

Application	WB, IHC, E
Primary Accession	P50336
Other Accession	BC002357
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2F10
Calculated MW	50765

Additional Information

Gene ID	5498
Other Names	Protoporphyrinogen oxidase, PPO, PPOX
Target/Specificity	PPOX (AAH02357, 378 a.a. ~ 477 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PPOX Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

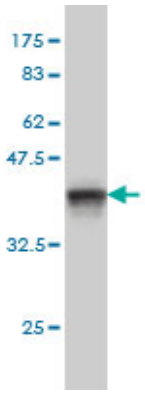
This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporphyrin IX. Mutations in this gene cause variegate porphyria, an autosomal dominant disorder of heme metabolism resulting from a deficiency in protoporphyrinogen oxidase, an enzyme located on the inner mitochondrial membrane. Alternatively spliced transcript variants encoding the same protein have been identified.

References

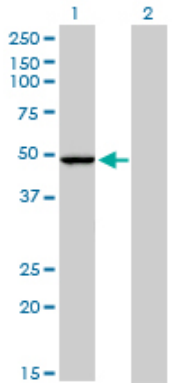
1.Methotrexate enhances 5-aminolevulinic acid-mediated photodynamic therapy-induced killing of human SCC4 cells by upregulation of coproporphyrinogen oxidase.Yang DF, Lee JW, Chen HM, Huang Z, Hsu YCJ

Formos Med Assoc. 2014 Jan 29. pii: S0929-6646(13)00452-X. doi: 10.1016/j.jfma.2013.12.005.2.Posttranslational stability of the heme biosynthetic enzyme ferrochelatase is dependent on iron availability and intact iron-sulfur cluster assembly machinery.Crooks DR, Ghosh MC, Haller RG, Tong WH, Rouault TA.Blood. 2010 Jan 28;115(4):860-9. Epub 2009 Nov 25.

Images

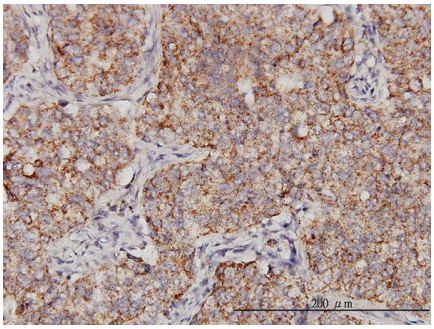


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

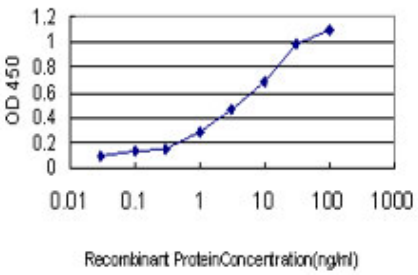


Western Blot analysis of PPOX expression in transfected 293T cell line by PPOX monoclonal antibody (M01), clone 2F10.

Lane 1: PPOX transfected lysate(50.8 KDa).
Lane 2: Non-transfected lysate.

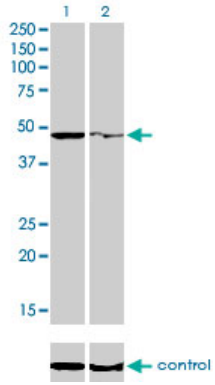


Immunoperoxidase of monoclonal antibody to PPOX on formalin-fixed paraffin-embedded human lung, adenosquamous cell carcinoma. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged PPOX is approximately 0.1ng/ml as a capture antibody.

Western blot analysis of PPOX over-expressed 293 cell line, cotransfected with PPOX Validated Chimera RNAi ((Cat # AT3407a)



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.