

PPOX Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant PPOX.****Catalog # AT3407a****Specification**

PPOX Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	P50336
Other Accession	BC002357
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	50765

PPOX Antibody (monoclonal) (M01) - 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.

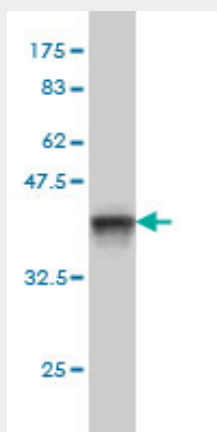
PPOX Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

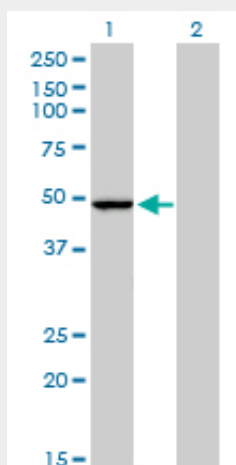
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPOX Antibody (monoclonal) (M01) - Images



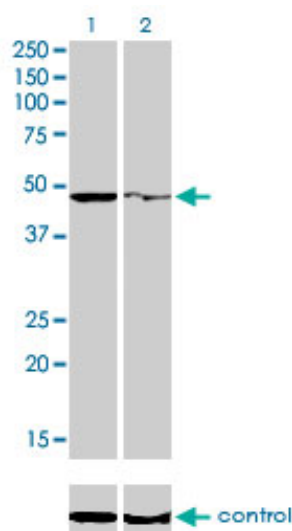
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



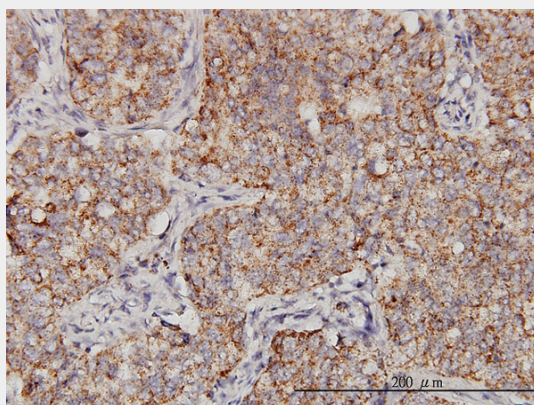
Western Blot analysis of PPOX expression in transfected 293T cell line by PPOX monoclonal antibody (M01), clone 2F10.

Lane 1: PPOX transfected lysate (50.8 kDa).

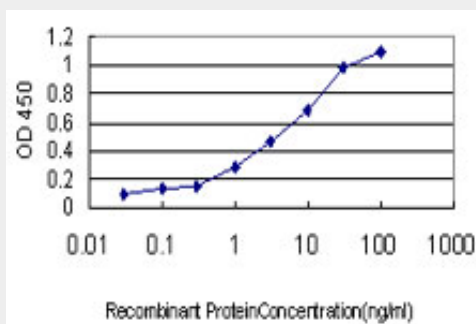
Lane 2: Non-transfected lysate.



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



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.

PPOX Antibody (monoclonal) (M01) - 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.

PPOX Antibody (monoclonal) (M01) - 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.