

Monoamine Oxidase A Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51327

Specification

Monoamine Oxidase A Antibody - Product Information

Application	WB
Primary Accession	P21397
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa
Antigen Region	291 - 350

Monoamine Oxidase A Antibody - Additional Information

Gene ID 4128

Other Names

Amine oxidase [flavin-containing] A, Monoamine oxidase type A, MAO-A, MAOA

Target/Specificity

KLH conjugated synthetic peptide derived from human Monoamine Oxidase A

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Monoamine Oxidase A Antibody - Protein Information

Name MAOA ([HGNC:6833](#))

Function

Catalyzes the oxidative deamination of primary and some secondary amine such as neurotransmitters, with concomitant reduction of oxygen to hydrogen peroxide and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed: [18391214](http://www.uniprot.org/citations/18391214), PubMed: [20493079](http://www.uniprot.org/citations/20493079), PubMed: [24169519](http://www.uniprot.org/citations/24169519), PubMed: [8316221](http://www.uniprot.org/citations/8316221)). Preferentially oxidizes serotonin (PubMed: [20493079](http://www.uniprot.org/citations/20493079), PubMed: [24169519](http://www.uniprot.org/citations/24169519)). Also

catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to 4-hydroxyquinoline (By similarity).

Cellular Location

Mitochondrion outer membrane {ECO:0000250|UniProtKB:P21396}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:P21396}; Cytoplasmic side {ECO:0000250|UniProtKB:P21396}

Tissue Location

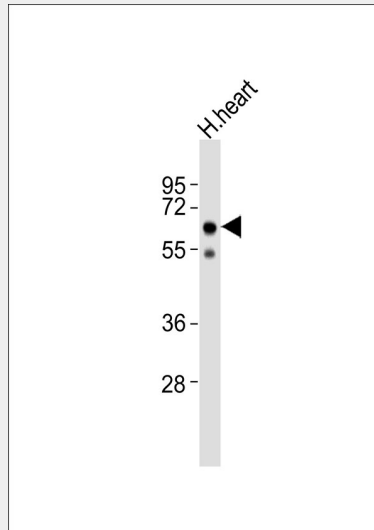
Heart, liver, duodenum, blood vessels and kidney.

Monoamine Oxidase A Antibody - 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](#)

Monoamine Oxidase A Antibody - Images



Anti-Monoamine Oxidase A Antibody at 1:1000 dilution + human heart lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

Monoamine Oxidase A Antibody - Background

Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.

Monoamine Oxidase A Antibody - References

- Hsu Y.-P.P., et al. J. Neurochem. 51:1321-1324(1988).
Bach A.W.J., et al. Proc. Natl. Acad. Sci. U.S.A. 85:4934-4938(1988).
Chen Z.-Y., et al. Nucleic Acids Res. 19:4537-4541(1991).
Grimsby J., et al. Proc. Natl. Acad. Sci. U.S.A. 88:3637-3641(1991).
Ota T., et al. Nat. Genet. 36:40-45(2004).