

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

**Specification**

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**Monoamine Oxidase A Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P21397</a>
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

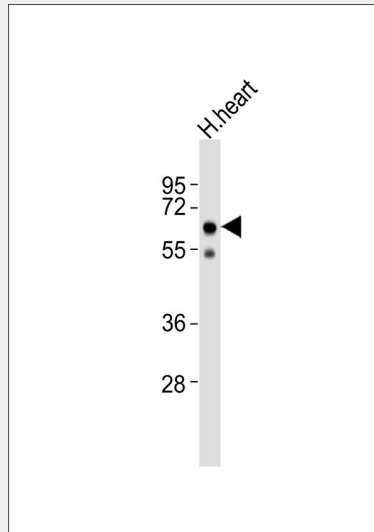
Heart, liver, duodenum, blood vessels and kidney.

### 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% NFDm/TBST.

### 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).