

**MAO-A Polyclonal Antibody**  
Catalog # AP70818**Specification**

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**MAO-A Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P21397</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**MAO-A Polyclonal Antibody - Additional Information**

Gene ID 4128

**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**MAO-A Polyclonal 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) target="\_blank">18391214</a>, PubMed: [20493079](http://www.uniprot.org/citations/20493079) target="\_blank">20493079</a>, PubMed: [24169519](http://www.uniprot.org/citations/24169519) target="\_blank">24169519</a>, PubMed: [8316221](http://www.uniprot.org/citations/8316221) target="\_blank">8316221</a>). Preferentially oxidizes serotonin (PubMed: [20493079](http://www.uniprot.org/citations/20493079) target="\_blank">20493079</a>, PubMed: [24169519](http://www.uniprot.org/citations/24169519) target="\_blank">24169519</a>). 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

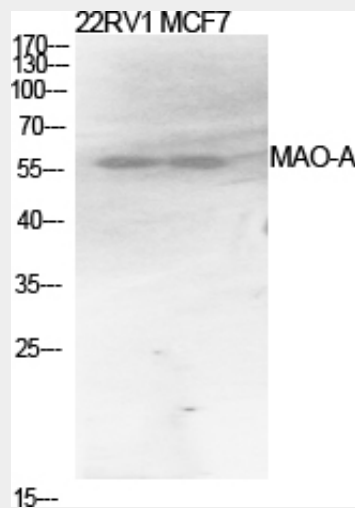
Heart, liver, duodenum, blood vessels and kidney.

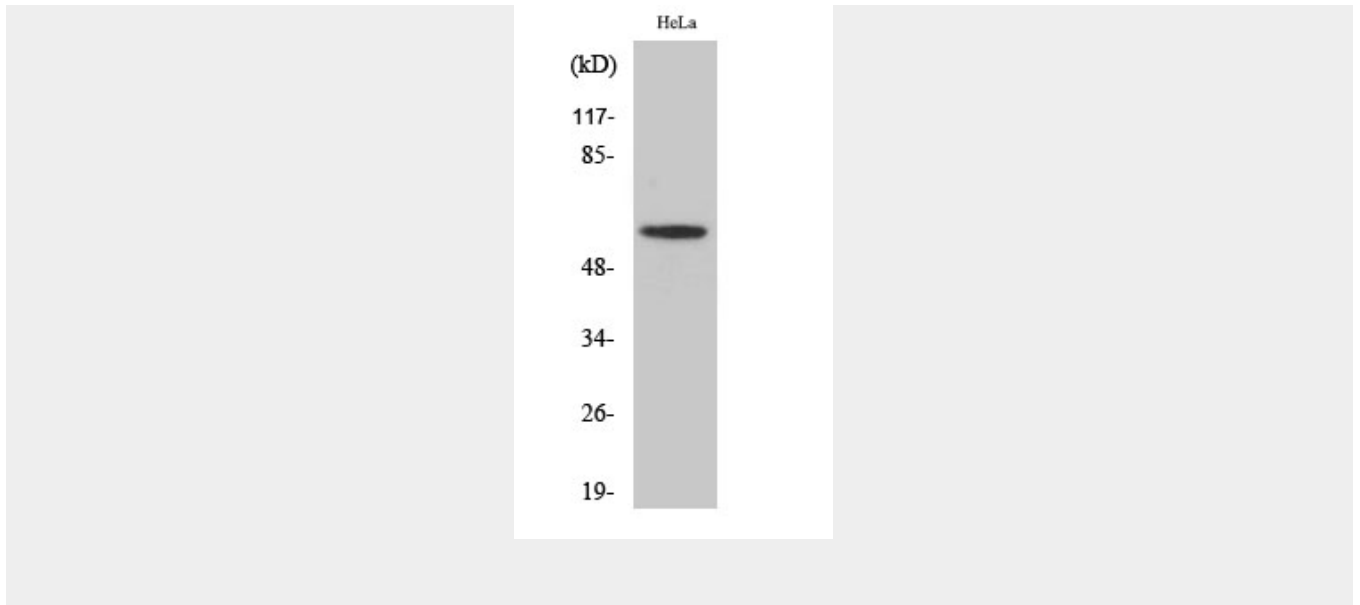
#### MAO-A Polyclonal Antibody - Protocols

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](#)

#### MAO-A Polyclonal Antibody - Images





### MAO-A Polyclonal 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.