

# MAO-A Polyclonal Antibody

Catalog # AP70818

# **Product Information**

Application WB, IHC-P Primary Accession P21397

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW59682

### **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. IHC-P~~N/A

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

azide.

Storage Conditions -20°C

#### **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, PubMed: 20493079, PubMed: 24169519,

PubMed:<u>8316221</u>). Preferentially oxidizes serotonin (PubMed:<u>20493079</u>, PubMed:<u>24169519</u>). Also catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to

4-hydroxyguinoline (By similarity).

**Cellular Location** Mitochondrion outer membrane {ECO:0000250 | UniProtKB:P21396};

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

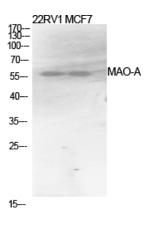
Cytoplasmic side {ECO:0000250|UniProtKB:P21396}

**Tissue Location** Heart, liver, duodenum, blood vessels and kidney.

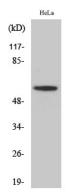
# **Background**

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.

## **Images**



Western Blot analysis of various cells using MAO-A Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HeLa cells using MAO-A Polyclonal Antibody diluted at 1:1000

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