

# MAOA Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21078a

#### **Product Information**

Application WB, E Primary Accession P21397

**Reactivity** Human, Rat, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB48811
Calculated MW 59682

#### **Additional Information**

Gene ID 4128

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

MAOA

Target/Specificity This MAOA antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 465-499 amino acids from the

C-terminal region of human MAOA.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** MAOA Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **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.

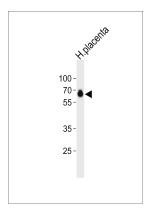
### **Background**

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.

#### 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).

## **Images**



Western blot analysis of lysate from human placenta tissue lysate, using MAOA Antibody (C-term)(Cat. #AP21078a). AP21078a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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