

# Monoamine Oxidase A Rabbit mAb

Catalog # AP75734

## Product Information

---

<b>Application</b>	WB, IHC-P, FC
<b>Primary Accession</b>	<a href="#">P21397</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	59682

## Additional Information

---

<b>Gene ID</b>	4128
<b>Other Names</b>	MAOA
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:20
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

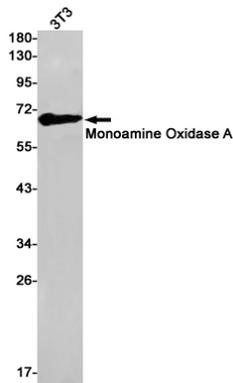
---

<b>Name</b>	MAOA ( <a href="#">HGNC:6833</a> )
<b>Function</b>	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: <a href="#">18391214</a> , PubMed: <a href="#">20493079</a> , PubMed: <a href="#">24169519</a> , PubMed: <a href="#">8316221</a> ). Preferentially oxidizes serotonin (PubMed: <a href="#">20493079</a> , PubMed: <a href="#">24169519</a> ). Also catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to 4-hydroxyquinoline (By similarity).
<b>Cellular Location</b>	Mitochondrion outer membrane {ECO:0000250 UniProtKB:P21396}; Single-pass type IV membrane protein {ECO:0000250 UniProtKB:P21396}; Cytoplasmic side {ECO:0000250 UniProtKB:P21396}
<b>Tissue Location</b>	Heart, liver, duodenum, blood vessels and kidney.

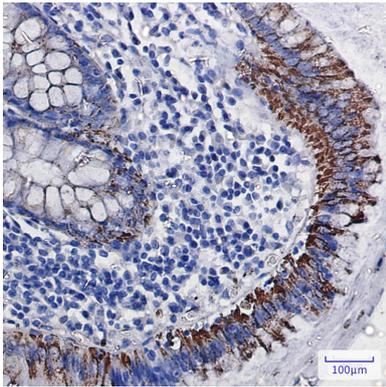
## Background

This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. Mutation of this gene results in Brunner syndrome. This gene has also been associated with a variety of other psychiatric disorders, including antisocial behavior. Alternatively spliced transcript variants encoding multiple isoforms have been observed.

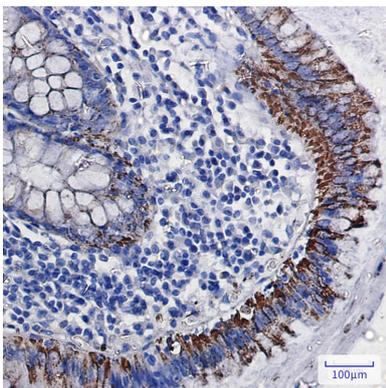
## Images

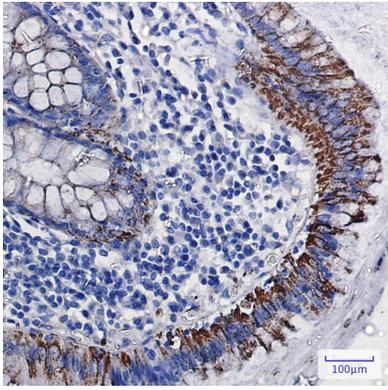


Western blot analysis of Monoamine Oxidase A in 3T3 lysates using Monoamine Oxidase A antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Monoamine Oxidase A/MAOA antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





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