

# Anti-MAOB Antibody

Catalog # ABO10964

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">Q8BW75</a>                                                                                                     |
| <b>Host</b>              | Rabbit                                                                                                                     |
| <b>Reactivity</b>        | Mouse, Rat                                                                                                                 |
| <b>Clonality</b>         | Polyclonal                                                                                                                 |
| <b>Format</b>            | Lyophilized                                                                                                                |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Amine oxidase[flavin-containing] B(MAOB) detection. Tested with WB, IHC-P in Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                       |

## Additional Information

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| <b>Gene ID</b>                  | 109731                                                                                                                                            |
| <b>Other Names</b>              | Amine oxidase [flavin-containing] B, 1.4.3.4, Monoamine oxidase type B, MAO-B, Maob                                                               |
| <b>Calculated MW</b>            | 58558                                                                                                                                             |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Mouse, Rat, By Heat<br><br>Western blot, 0.1-0.5 $\mu$ g/ml, Mouse, Rat        |
| <b>Subcellular Localization</b> | Mitochondrion outer membrane ; Single-pass type IV membrane protein ; Cytoplasmic side .                                                          |
| <b>Source</b>                   | Eukaryota                                                                                                                                         |
| <b>Protein Name</b>             | Amine oxidase[flavin-containing] B                                                                                                                |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                     |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the N-terminus of mouse MAOB (42-56aa RTYTIRNKNVKYVDL), identical to the related rat sequence. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                      |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                           |
| <b>Storage</b>                  | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also                                                                |

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

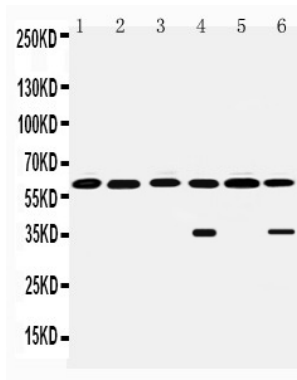
## Protein Information

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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | Maob {ECO:0000312   MGI:MGI:96916}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>          | Catalyzes the oxidative deamination of primary and some secondary amines such as neurotransmitters, and exogenous amines including the tertiary amine, neurotoxin 1-methyl-4-phenyl-1,2,3,6- tetrahydropyridine (MPTP), with concomitant reduction of oxygen to hydrogen peroxide and participates in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed: <a href="#">4156831</a> ). Preferentially degrades benzylamine and phenylethylamine (By similarity). |
| <b>Cellular Location</b> | Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side                                                                                                                                                                                                                                                                                                                                                                                                                                         |

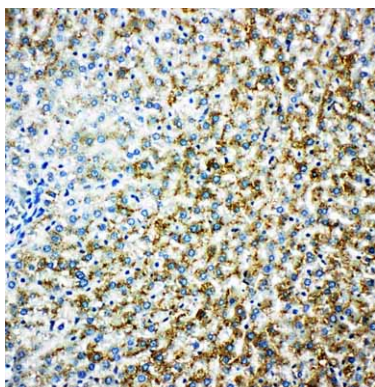
## Background

MAOB(MONOAMINE OXIDASE B), also called MAO, BRAIN, AMINE OXIDASE(FLAVIN-CONTAINING) B, is a protein that in humans is encoded by the MAOB gene. MAOB is a member of the flavin monoamine oxidase family. And it is mapped on Xp11.3. MAOB catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine. Like MAOA, it also degrades dopamine. MAO-B is involved in the breakdown of dopamine, a neurotransmitter implicated in reinforcing and motivating behaviors as well as movement. MAO-B inhibition is, therefore, associated with enhanced activity of dopamine, as well as with decreased production of hydrogen peroxide, a source of reactive oxygen species.

## Images



Anti-MAOB antibody, ABO10964, Western blottingAll lanes: Anti MAOB (ABO10964) at 0.5ug/mlLane 1: Mouse Liver Tissue Lysate at 50ugLane 2: Mouse Lung Tissue Lysate at 50ug Lane 3: Rat Kidney Tissue Lysate at 50ugLane 4: Rat Brain Tissue Lysate at 50ugLane 5: Rat Liver Tissue Lysate at 50ugLane 6: Rat Lung Tissue Lysate at 50ugPredicted bind size: 59KDObserved bind size: 59KD



Anti-MAOB antibody, ABO10964, IHC(P)IHC(P): Rat Liver Tissue

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