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Tel: 858.875.1900 Fax: 858.875.1999

Anti-MAOB Antibody
Catalog # ABO10964

Specification

Anti-MAOB Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q8BW75
Host	**Rabbit**
Reactivity	**Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Amine oxidase[flavin-containing] B(MAOB) detection. Tested with WB, IHC-P in Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MAOB Antibody - Additional Information

Gene ID 109731

Other Names
Amine oxidase [flavin-containing] B, 1.4.3.4, Monoamine oxidase type B, MAO-B, Maob

Calculated MW
58558 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Mouse, Rat

Subcellular Localization
Mitochondrion outer membrane ; Single-pass type IV membrane protein ; Cytoplasmic side .

Protein Name
Amine oxidase[flavin-containing] B

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of mouse MAOB (42-56aa RTYTIRNKNVKYVDL), identical to the related rat sequence.

Purification
Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage	**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.**

Anti-MAOB Antibody - Protein Information

Name Maob {ECO:0000312|MGI:MGI:96916}

Function
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:4156831). Preferentially degrades benzylamine and phenylethylamine (By similarity).

Cellular Location
Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side

Anti-MAOB 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 Cytomety
- Cell Culture

Anti-MAOB Antibody - Images

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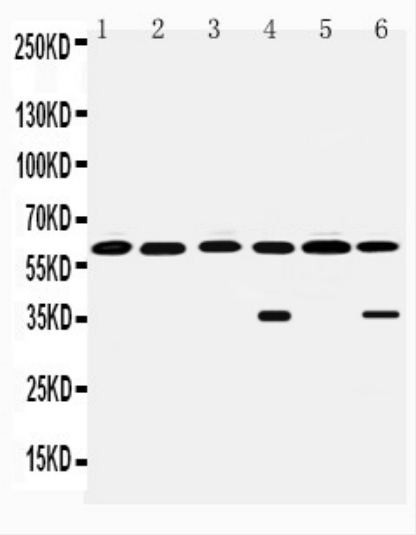
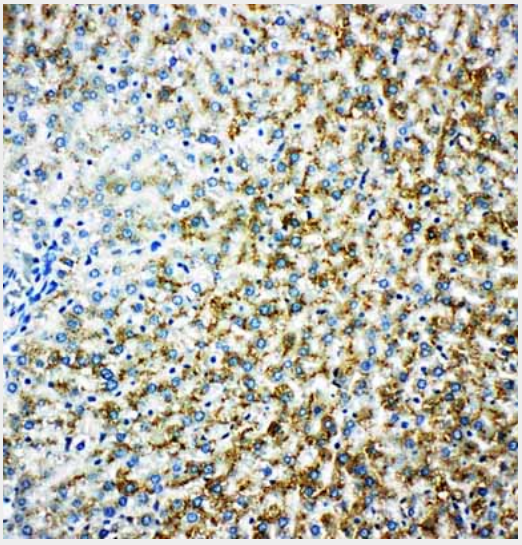


Anti-MAOB antibody, ABO10964, Western blottingAll lanes: Anti MAOB (ABO10964) at 0.5ug/mlLane 1: Mouse Liver Tissue Lysate at 50ugLane 2: Mouse Lung Tissue Lysate at 50ug Lane 3: Rat Kidney Tissue Lysate at 50ugLane 4: Rat Brain Tissue Lysate at 50ugLane 5: Rat Liver Tissue Lysate at 50ugLane 6: Rat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



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

Anti-MAOB Antibody - 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.