

**Anti-MAOB Picoband Antibody**  
**Catalog # ABO12351****Specification**

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**Anti-MAOB Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P27338</a>
Host	Rabbit
Reactivity	Human, 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 Human;Mouse;Rat.

**Reconstitution**

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

**Anti-MAOB Picoband Antibody - Additional Information**

**Gene ID** 4129

**Other Names**

Amine oxidase [flavin-containing] B, 1.4.3.4, Monoamine oxidase type B, MAO-B, MAOB

**Calculated MW**

58763 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, 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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human MAOB (448-484aa REILHAMGKIPEDIWQSEPESVDVPAQPITTTFLER), different from the related mouse sequence by five amino acids, and from the related rat sequence by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, 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 Picoband Antibody - Protein Information**

**Name** MAOB ([HGNC:6834](#))

**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:[11049757](http://www.uniprot.org/citations/11049757), PubMed:[11134050](http://www.uniprot.org/citations/11134050), PubMed:[20493079](http://www.uniprot.org/citations/20493079), PubMed:[8316221](http://www.uniprot.org/citations/8316221), PubMed:[8665924](http://www.uniprot.org/citations/8665924)). Preferentially degrades benzylamine and phenylethylamine (PubMed:[11049757](http://www.uniprot.org/citations/11049757), PubMed:[11134050](http://www.uniprot.org/citations/11134050), PubMed:[20493079](http://www.uniprot.org/citations/20493079), PubMed:[8316221](http://www.uniprot.org/citations/8316221), PubMed:[8665924](http://www.uniprot.org/citations/8665924)).

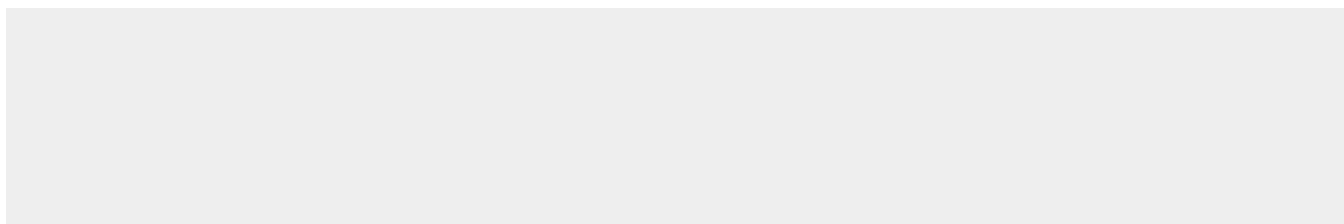
**Cellular Location**

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

**Anti-MAOB Picoband Antibody - Protocols**

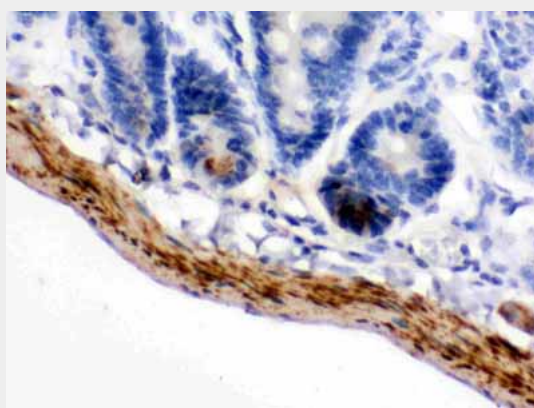
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

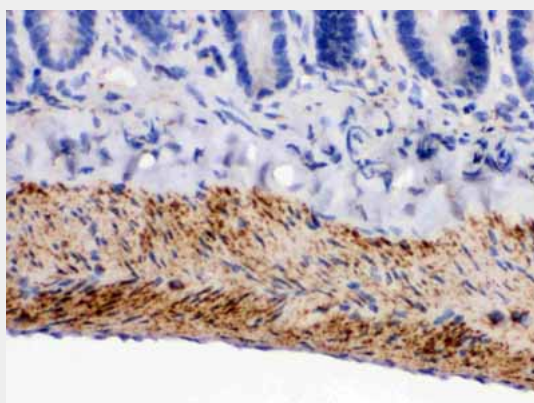
**Anti-MAOB Picoband Antibody - Images**



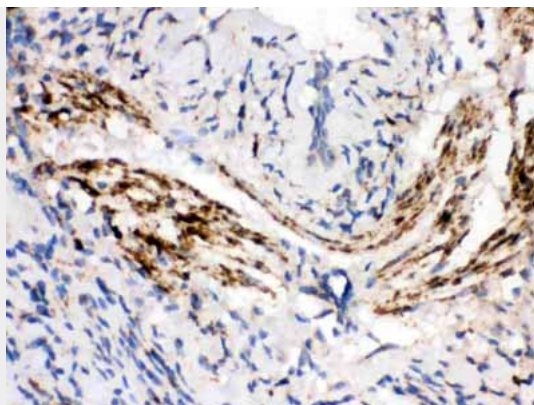
Anti- MAOB Picoband antibody, ABO12351, Western blotting All lanes: Anti MAOB (ABO12351) at 0.5ug/ml  
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug  
Lane 2: Rat Kidney Tissue Lysate at 50ug  
Lane 3: Rat Intestine Tissue Lysate at 50ug  
Lane 4: Mouse Kidney Tissue Lysate at 50ug  
Lane 5: Mouse Intestine Tissue Lysate at 50ug  
Lane 6: Mouse Cardiac Muscle Tissue Lysate at 50ug  
Lane 7: HEPG2 Whole Cell Lysate at 40ug  
Lane 8: HELA Whole Cell Lysate at 40ug  
Lane 9: COLO320 Whole Cell Lysate at 40ug  
Predicted bind size: 59KD  
Observed bind size: 59KD



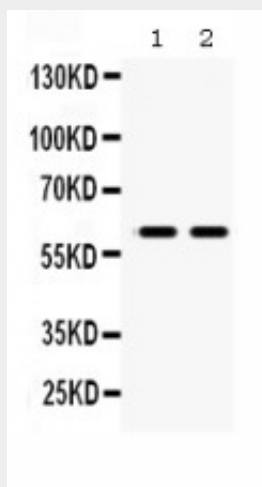
Anti- MAOB Picoband antibody, ABO12351, IHC(P) IHC(P): Mouse Intestine Tissue



Anti- MAOB Picoband antibody, ABO12351, IHC(P) IHC(P): Rat Intestine Tissue



Anti- MAOB Picoband antibody, ABO12351,IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- MAOB Picoband antibody, ABO12351, Western blottingAll lanes: Anti MAOB (ABO12351) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 59KDObserved bind size: 59KD

### Anti-MAOB Picoband 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.