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Anti-MAOB Picoband Antibody

Catalog # ABO12351

Product Information

Application	WB, IHC-P
Primary Accession	P27338
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side.
Source	Eukaryota
Protein Name	Amine oxidase [flavin-containing] B
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MAOB (448-484aa REILHAMGKIPEDEIWQSEPESVDVPAQPITTTFLER), 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 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.

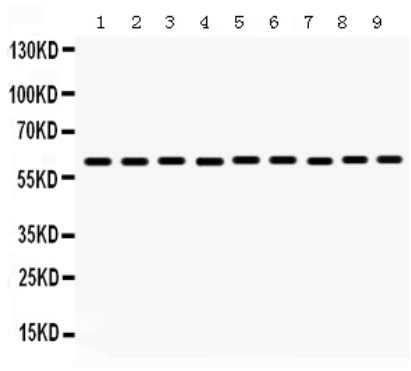
Protein Information

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, PubMed:11134050, PubMed:20493079, PubMed:8316221, PubMed:8665924). Preferentially degrades benzylamine and phenylethylamine (PubMed:11049757, PubMed:11134050, PubMed:20493079, PubMed:8316221, PubMed:8665924).
Cellular Location	Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side

Background

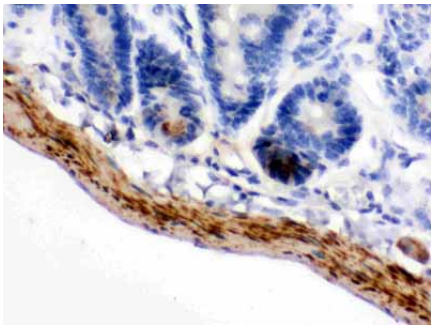
MAOB (MONOAMINE OXIDASE B), also called MAO, BRAIN, AMINE OXIDASE (FLAVIN-CONTAINING) B, is a protein that in humans is encoded by the MAOB gene. MAOB is a member of the flavin monoamine oxidase family. And it is mapped on Xp11.3. MAOB catalyzes the oxidative deamination of biogenic and xenobiotic amines 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.

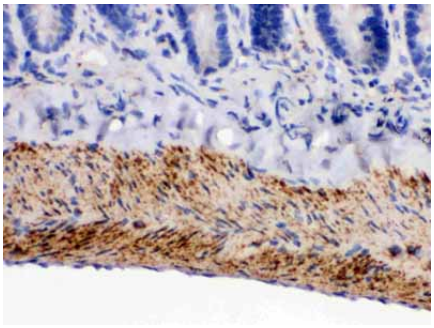
Images



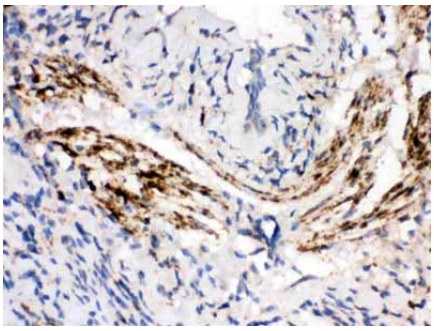
Anti- MAOB Picoband antibody, ABO12351, Western blottingAll lanes: Anti MAOB (ABO12351) at 0.5ug/mlLane 1: Rat Cardiac MuscleTissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Intestine Tissue Lysate at 50ugLane 4: Mouse Kidney Tissue Lysate at 50ugLane 5: Mouse Intestine Tissue Lysate at 50ugLane 6: Mouse Cardiac Muscle Tissue Lysate at 50ugLane 7: HEPG2 Whole Cell Lysate at 40ugLane 8: HELA Whole Cell Lysate at 40ugLane 9: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 59KDObserved bind size: 59KD

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

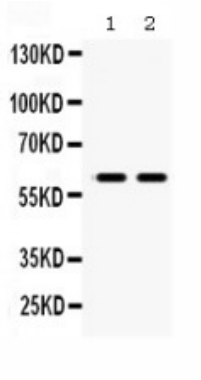




Anti- MAOB Picoband antibody, ABO12351,IHC(P)IHC(P): Rat Intestine Tissue



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

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