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Monoamine Oxidase B Rabbit pAb

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Catalog # AP54448

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P27338
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58763
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAOB/Monoamine Oxidase B
Epitope Specificity	51-150/520
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion outer membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Monoamine oxidase (MAO) is an enzyme of the mitochondrial outer membrane and catalyzes the oxidative deamination of biogenic amines throughout the body (1). MAO is critical in the neuronal metabolism of catecholamine and indolamine transmitters (2). Cultured skin fibroblasts show both MAO-A and MAO-B and both MAOs differ in molecular structure (1). MAO-A, the primary type in fibroblasts, preferentially degrades serotonin and norepinephrine (3). Only MAO-B is present in platelets and only MAO-A is present in trophoblasts (1). MAO-B, the primary type found not only in platelets but also in the brain of man and other primates, preferentially degrades phenylethylamine and benzylamine (3). MAO has been of particular interest to psychiatry and genetics because of the suggestion that low activity is a 'genetic marker' for schizophrenia (4). The genes which encode MAO-A and MAO-B map to human chromosome Xp11.23 (5).

Additional Information

Gene ID	4129
Other Names	Amine oxidase [flavin-containing] B, 1.4.3.21, 1.4.3.4, Monoamine oxidase type B, MAO-B, MAOB (HGNC:6834)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name MAOB (HGNC:6834)

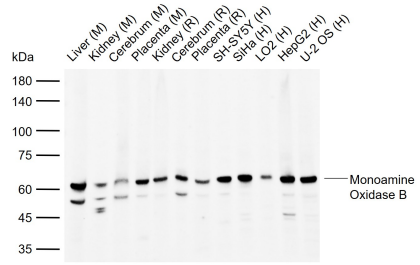
Function Catalyzes the oxidative deamination of primary and some secondary amines such as neurotransmitters, and exogenous amines including the tertiary amine, neurotoxin 1-methyl-4-phenyl-1,2,3,6- tetrahydropyridine (MPTP), with concomitant reduction of oxygen to hydrogen peroxide and participates in 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

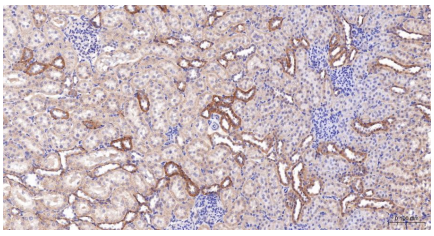
Background

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Images



Sample:
Lane 1: Mouse Liver tissue lysates
Lane 2: Mouse Kidney tissue lysates
Lane 3: Mouse Cerebrum tissue lysates
Lane 4: Mouse Placenta tissue lysates
Lane 5: Rat Kidney tissue lysates
Lane 6: Rat Cerebrum tissue lysates
Lane 7: Rat Placenta tissue lysates
Lane 8: Human SH-SY5Y cell lysates
Lane 9: Human SiHa cell lysates
Lane 10: Human LO2 cell lysates
Lane 11: Human HepG2 cell lysates
Lane 12: Human U-2 OS cell lysates
Primary: Anti-Monoamine Oxidase B (AP54448) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 59 kDa
Observed band size: 61 kDa



Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Monoamine Oxidase B Polyclonal Antibody, Unconjugated (AP54448) at 1:200 overnight at 4°C, followed by conjugation to the AP54448-HRP and DAB (C-0010) staining.

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