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Monoamine Oxidase A Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51327

Product Information

Application	WB
Primary Accession	P21397
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59682

Additional Information

Gene ID	4128
Other Names	Amine oxidase [flavin-containing] A, Monoamine oxidase type A, MAO-A, MAOA
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Monoamine Oxidase A. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	MAOA (HGNC:6833)
Function	Catalyzes the oxidative deamination of primary and some secondary amine such as neurotransmitters, with concomitant reduction of oxygen to hydrogen peroxide and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed:18391214, PubMed:20493079, PubMed:24169519, PubMed:8316221). Preferentially oxidizes serotonin (PubMed:20493079, PubMed:24169519). Also catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to 4-hydroxyquinoline (By similarity).
Cellular Location	Mitochondrion outer membrane {ECO:0000250|UniProtKB:P21396}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:P21396}; Cytoplasmic side {ECO:0000250|UniProtKB:P21396}
Tissue Location	Heart, liver, duodenum, blood vessels and kidney.

Background

Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.

References

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Bach A.W.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:4934-4938(1988).
Chen Z.-Y.,et al.Nucleic Acids Res. 19:4537-4541(1991).
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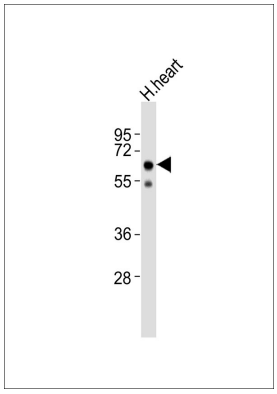
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Anti-Monoamine Oxidase A Antibodyat 1:1000 dilution + human heart lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.