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DANRE mao Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb10032a

Product Information

Application	WB, E
Primary Accession	Q6NSN2
Reactivity	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58765
Antigen Region	332-364

Additional Information

Gene ID	404730
Other Names	Amine oxidase [flavin-containing], Monoamine oxidase, MAO, Z-MAO, AOF
Target/Specificity	This DANRE mao antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 332-364 amino acids from the Central region of DANRE mao.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DANRE mao Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	mao {ECO:0000312|EMBL:AAH70013.1, ECO:0000312|ZFIN:ZDB-GENE-040329-3}
Function	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 (PubMed:15621520, PubMed:16917825). Preferentially oxidizes serotonin and tyramine (PubMed:15621520, PubMed:16917825). 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	Strongest expression in brain and intestine, followed by liver, heart and gill. Little expression in spleen, eye or muscle. In brain, highest activity in noradrenergic and serotonergic cell groups and those of the habenulointerpeduncular pathway; moderate levels in dopaminergic cell clusters.

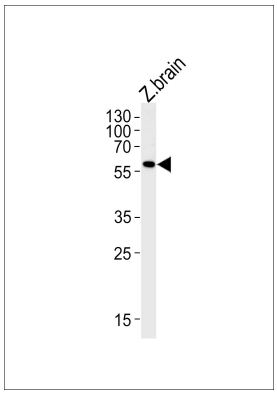
Background

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. Oxidizes both 5-hydroxytryptamine (5-HT) and beta-phenylethylamine (PEA).

References

Setini A., et al. Comp. Biochem. Physiol. 140B:153-161(2005).
Anichtchik O., et al. J. Comp. Neurol. 498:593-610(2006).

Images



DANRE mao Antibody (Center) (Cat. #Azb10032a) western blot analysis in zebra fish brain tissue lysates (35ug/lane).This demonstrates the DANRE mao antibody detected the DANRE mao protein (arrow).