10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Zebrafish mao Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb10032a

Specification

Zebrafish mao Antibody (Center) - Product Information

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

Zebrafish mao Antibody (Center) - Additional Information

Gene ID 404730

Other Names
Amine oxidase [flavin-containing], Monoamine oxidase, MAO, Z-MAO, AOF

Target/Specificity
This Zebrafish mao antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 332-364 amino acids from the central region of zebrafish 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
Zebrafish mao Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Zebrafish mao Antibody (Center) - 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}

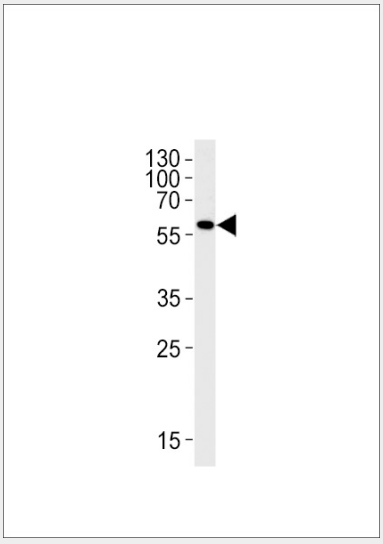
Tissue Location
Strongest expression in brain and intestine, followed by liver, heart and gill. Little expression in spleen, eye or muscle. In brain, highest activity in noradrenergic and serotonergic cell groups and those of the habenulointerpeduncular pathway; moderate levels in dopaminergic cell clusters.

Zebrafish mao Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Zebrafish mao Antibody (Center) - Images



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

Zebrafish mao Antibody (Center) - 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).

Zebrafish mao Antibody (Center) - References

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