BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish P5CS/ALDH18A1 Antibody

Catalog Number: AZA4IGC8

About ALDH18A1

Delta-1-pyrroline-5-carboxylate synthetase (P5CS) is an enzyme that in humans is encoded by the ALDH18A1 gene. This gene is mapped to 10q24.1. This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate,a critical step in the de novo biosynthesis of proline,ornithine and arginine. Mutations in this gene lead to hyperammonemia,hypoornithinemia,hypocitrullinemia,hypoargininemia and hypoprolinemia and may be associated with neurodegeneration,cataracts and connective tissue diseases. Alternatively spliced transcript variants,encoding different isoforms,have been described for this gene.

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Overview

Product Name	Anti-Zebrafish P5CS/ALDH18A1 Antibody
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish P5CS/ALDH18A1 Antibody catalog # AZA4IGC8. Tested in IHC applications. This antibody reacts with Zebrafish.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	A4IGC8

Technical Details

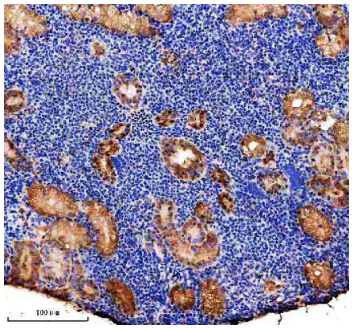
Immunogen	E.coli-derived zebrafish P5CS/ALDH18A1 recombinant protein (Position: R35-A204).
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

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Anti-Zebrafish P5CS/ALDH18A1 Antibody (AZA4IGC8) Images



IHC analysis of P5CS/ALDH18A1 using anti-P5CS/ALDH18A1 antibody (AZA4IGC8). P5CS/ALDH18A1 was detected in a paraffin-embedded section of zebrafish kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P5CS/ALDH18A1 Antibody (AZA4IGC8) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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For Research Use Only. Not for use in diagnostic procedures.