

Anti-Zebrafish P5CS/ALDH18A1 Antibody Fluoro594 Conjugated

Catalog Number: AZA4IGC8-Fluoro594

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, hypoorithinemia, 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.

Overview

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|----------------------|---|
| Product Name | Anti-Zebrafish P5CS/ALDH18A1 Antibody Fluoro594 Conjugated |
| Reactive Species | Zebrafish |
| Application | Recommended applications are based on the parent unconjugated antibody (IHC). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N. |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | A4IGC8 |

Technical Details

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|---------------|--|
| Immunogen | E.coli-derived zebrafish P5CS/ALDH18A1 recombinant protein (Position: R35-A204). |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Fluoro594 Excitation Wavelength: 593 nm Emission Wavelength: 618 nm |

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