BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish HMGCS1 Antibody Picoband®

Catalog Number: AZA0A0R4IQG1

About HMGCS1

Predicted to enable hydroxymethylglutaryl-CoA synthase activity. Acts upstream of or within several processes, including embryonic viscerocranium morphogenesis; erythrocyte development; and oligodendrocyte development. Is expressed in several structures, including digestive system; immature eye; nervous system; pectoral fin musculature; and yolk syncytial layer. Human ortholog(s) of this gene implicated in HMG-CoA synthase 2 deficiency. Orthologous to several human genes including HMGCS1 (3-hydroxy-3-methylglutaryl-CoA synthase 1).

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Overview

Product Name	Anti-Zebrafish HMGCS1 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish HMGCS1 Antibody Picoband® catalog # AZA0A0R4IQG1. Tested in WB, IHC applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
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	A0A0R4IQG1

Technical Details

Immunogen	E.coli-derived Zebrafish HMGCS1 recombinant protein (Position: Q53-D475).
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	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry, 2-5 ug/ml, Zebrafish

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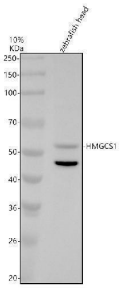
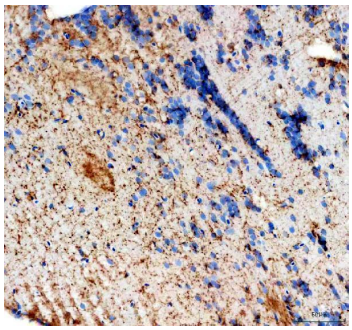
Anti-Zebrafish HMGCS1 Antibody Picoband® (AZA0A0R4IQG1) Images



Western blot analysis of HMGCS1 using anti-HMGCS1 antibody (AZA0A0R4IQG1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: zebrafish head tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HMGCS1 antigen affinity purified polyclonal antibody (AZA0A0R4IQG1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HMGCS1 at approximately 53 kDa. The expected band size for HMGCS1 is at 58 kDa.



IHC analysis of HMGCS1 using anti-HMGCS1 antibody (AZA0A0R4IQG1). HMGCS1 was detected in a paraffin-embedded section of zebrafish brain 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-HMGCS1 Antibody (AZA0A0R4IQG1) 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.

Anti-Zebrafish HMGCS1 Antibody

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