BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish GCLC Antibody Picoband®

Catalog Number: AZQ6NV35

About GCLC

Predicted to enable anion binding activity; glutamate-cysteine ligase activity; and magnesium ion binding activity. Predicted to be involved in several processes, including alpha-amino acid metabolic process; cell redox homeostasis; and glutathione biosynthetic process. Predicted to be part of glutamate-cysteine ligase complex. Is expressed in several structures, including alar plate midbrain region; gut; intermediate cell mass of mesoderm; midbrain; and sensory system. Human ortholog(s) of this gene implicated in congenital nonspherocytic hemolytic anemia 7; cystic fibrosis; hemolytic anemia; and myocardial infarction. Orthologous to human GCLC (glutamate-cysteine ligase catalytic subunit).

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Overview

Product Name	Anti-Zebrafish GCLC Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish GCLC Antibody Picoband® catalog # AZQ6NV35. Tested in WB 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	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	Q6NV35

Technical Details

Immunogen	E.coli-derived Zebrafish GCLC recombinant protein (Position: E13-K618).
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

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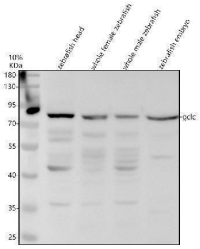
Anti-Zebrafish GCLC Antibody Picoband® (AZQ6NV35) Images



Western blot analysis of GCLC using anti-GCLC antibody (AZQ6NV35). 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, Lane 2: whole female zebrafish tissue lysates, Lane 3: whole male zebrafish tissue lysates, Lane 4: zebrafish embryo 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-GCLC antigen affinity purified polyclonal antibody (AZQ6NV35) 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 GCLC at approximately 80 kDa. The expected band size for GCLC is at 73 kDa.

Anti-Zebrafish GCLC Antibody

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