BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish GNAT2 Antibody Picoband®

Catalog Number: AZQ90WX5

About GNAT2

Predicted to enable G protein-coupled receptor binding activity; G-protein beta/gamma-subunit complex binding activity; and GTPase activity. Acts upstream of or within detection of light stimulus involved in visual perception. Predicted to be located in membrane. Predicted to be part of heterotrimeric G-protein complex. Predicted to be active in cytoplasm; photoreceptor inner segment; and photoreceptor outer segment. Is expressed in head; pineal complex; and visual system. Used to study achromatopsia and cone-rod dystrophy. Human ortholog(s) of this gene implicated in achromatopsia 4 and color blindness. Orthologous to human GNAT2 (G protein subunit alpha transducin 2).

Overview

Product Name	Anti-Zebrafish GNAT2 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish GNAT2 Antibody Picoband® catalog # AZQ90WX5. Tested in WB, IF 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	IF, 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	Q90WX5

Technical Details

Immunogen	E.coli-derived Zebrafish GNAT2 recombinant protein (Position: M1-D341).
Form	Lyophilized
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 Immunofluorescence, 2 ug/ml, Zebrafish

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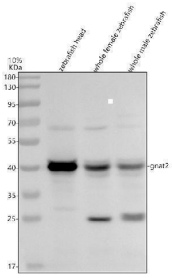
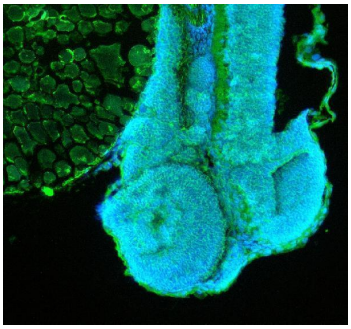
Anti-Zebrafish GNAT2 Antibody Picoband® (AZQ90WX5) Images



Western blot analysis of GNAT2 using anti-GNAT2 antibody (AZQ90WX5). 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.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-GNAT2 antigen affinity purified polyclonal antibody (AZQ90WX5) 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 GNAT2 at approximately 40 kDa. The expected band size for GNAT2 is at 40 kDa.



IF analysis of GNAT2 using anti-GNAT2 antibody (AZQ90WX5). GNAT2 was detected in a paraffin-embedded section of zebrafish embryo 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 5 ug/mL rabbit anti-GNAT2 Antibody (AZQ90WX5) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-Zebrafish GNAT2 Antibody

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