BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish GPR101 Antibody Picoband®

Catalog Number: AZA0AC58H7Z7

About GPR101

Predicted to enable G protein-coupled receptor activity. Acts upstream of or within hypothalamus development and regulation of embryonic development. Predicted to be located in membrane. Predicted to be active in plasma membrane. Is expressed in brain. Human ortholog(s) of this gene implicated in growth hormone secreting pituitary adenoma 2. Orthologous to human GPR101 (G protein-coupled receptor 101).

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Overview

Product Name	Anti-Zebrafish GPR101 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish GPR101 Antibody Picoband® catalog # AZA0AC58H7Z7. 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	A0AC58H7Z7

Technical Details

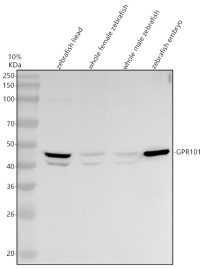
Immunogen	E.coli-derived Zebrafish GPR101 recombinant protein (Position: R218-F437).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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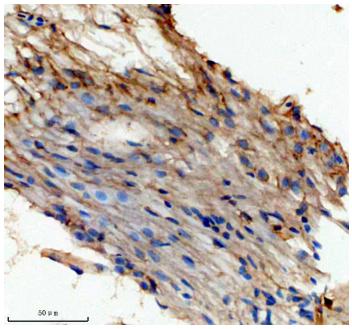
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry (Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

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Anti-Zebrafish GPR101 Antibody Picoband® (AZA0AC58H7Z7) Images



Western blot analysis of GPR101 using anti-GPR101 antibody (AZA0AC58H7Z7). 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-GPR101 antigen affinity purified polyclonal antibody (AZA0AC58H7Z7) 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 GPR101 at approximately 48 kDa. The expected band size for GPR101 is at 48 kDa.



IHC analysis of GPR101 using anti-GPR101 antibody (AZA0AC58H7Z7). GPR101 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-GPR101 Antibody (AZA0AC58H7Z7) 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 GPR101 Antibody

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