BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish CYP7A1 Antibody Picoband®

Catalog Number: AZF1QU76

About CYP7A1

Predicted to enable steroid hydroxylase activity. Predicted to be involved in bile acid biosynthetic process and cholesterol homeostasis. Predicted to act upstream of or within cellular response to glucose stimulus and cholesterol catabolic process. Predicted to be located in endoplasmic reticulum membrane. Is expressed in basal plate midbrain region; central nervous system; liver; otic vesicle; and retinal ganglion cell layer. Orthologous to human CYP7A1 (cytochrome P450 family 7 subfamily A member 1).

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Overview

Product Name	Anti-Zebrafish CYP7A1 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish CYP7A1 Antibody Picoband® catalog # AZF1QU76. 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	F1QU76

Technical Details

Immunogen	E.coli-derived Zebrafish CYP7A1 recombinant protein (Position: H102-L512).
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 Immunofluorescence, 5 ug/ml, Zebrafish

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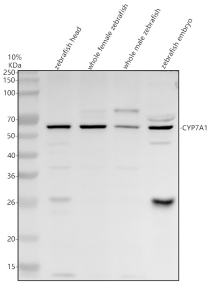
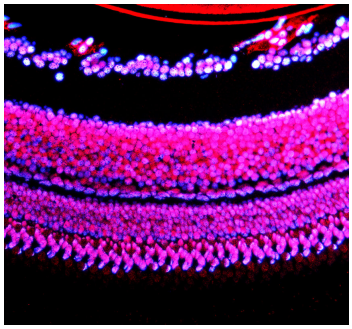
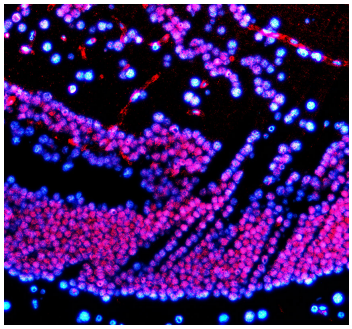
Anti-Zebrafish CYP7A1 Antibody Picoband® (AZF1QU76) Images



Western blot analysis of CYP7A1 using anti-CYP7A1 antibody (AZF1QU76). 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-CYP7A1 antigen affinity purified polyclonal antibody (AZF1QU76) 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 CYP7A1 at approximately 59 kDa. The expected band size for CYP7A1 is at 59 kDa.



IF analysis of CYP7A1 using anti-CYP7A1 antibody (AZF1QU76). CYP7A1 was detected in a paraffin-embedded section of zebrafish eye 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-CYP7A1 Antibody (AZF1QU76) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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.



IF analysis of CYP7A1 using anti-CYP7A1 antibody (AZF1QU76). CYP7A1 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 5 ug/mL rabbit anti-CYP7A1 Antibody (AZF1QU76) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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.

IF analysis of CYP7A1 using anti-CYP7A1 antibody (AZF1QU76). CYP7A1 was detected in a paraffin-embedded section of zebrafish intestine tissue. Heat mediated antigen

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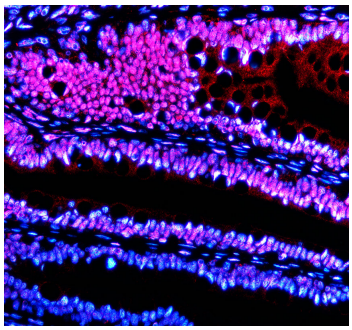

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Anti-Zebrafish CYP7A1 Antibody

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