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Anti-Zebrafish HSD11B2 Antibody Picoband®

Catalog Number: AZF1QLP1

About HSD11B2

Enables 11-beta-hydroxysteroid dehydrogenase (NAD+) activity. Acts upstream of or within cortisol metabolic process and multicellular organismal response to stress. Predicted to be located in membrane. Is expressed in several structures, including brain; cardiovascular system; digestive system; endocrine system; and eye. Human ortholog(s) of this gene implicated in apparent mineralocorticoid excess syndrome; hypertension; inherited metabolic disorder; obesity; and type 1 diabetes mellitus. Orthologous to human HSD11B2 (hydroxysteroid 11-beta dehydrogenase 2).

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Overview

Product Name	Anti-Zebrafish HSD11B2 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish HSD11B2 Antibody Picoband® catalog # AZF1QLP1. Tested in WB, IHC, 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, 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	F1QLP1

Technical Details

Immunogen	E.coli-derived Zebrafish HSD11B2 recombinant protein (Position: N118-D414).
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 (Paraffin-embedded Section), 2-5 ug/ml, Zebrafish Immunofluorescence, 5 ug/ml, Zebrafish

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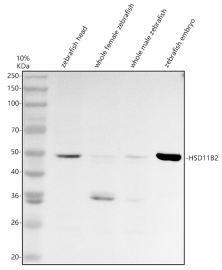
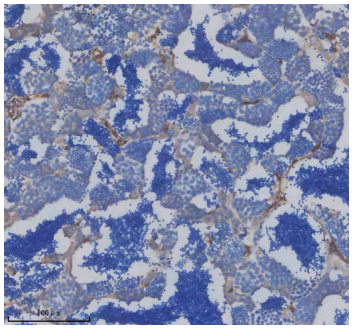
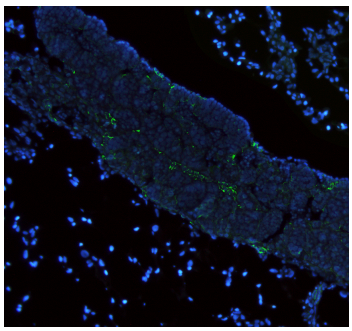
Anti-Zebrafish HSD11B2 Antibody Picoband® (AZF1QLP1) Images



Western blot analysis of HSD11B2 using anti-HSD11B2 antibody (AZF1QLP1). 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 lysates, Lane 2: whole female zebrafish lysates, Lane 3: whole male zebrafish lysates, Lane 4: zebrafish embryo 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-HSD11B2 antigen affinity purified polyclonal antibody (AZF1QLP1) 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 HSD11B2 at approximately 48 kDa. The expected band size for HSD11B2 is at 46-50 kDa.



IHC analysis of HSD11B2 using anti-HSD11B2 antibody (AZF1QLP1). HSD11B2 was detected in a paraffin-embedded section of zebrafish testis 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-HSD11B2 Antibody (AZF1QLP1) 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.



IF analysis of HSD11B2 using anti-HSD11B2 antibody (AZF1QLP1). HSD11B2 was detected in a paraffin-embedded section of zebrafish testis 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-HSD11B2 Antibody (AZF1QLP1) overnight at 4°C. Fluoro488 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.

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