BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish TPM1 Antibody Picoband®

Catalog Number: AZA0A1L6UW63

About TPM1

Predicted to enable actin filament binding activity. Predicted to be involved in actin filament organization and cardiac muscle contraction. Predicted to be active in actin filament. Is expressed in adaxial cell; heart; and musculature system. Human ortholog(s) of this gene implicated in dilated cardiomyopathy 1Y; familial hypertrophic cardiomyopathy; and hypertrophic cardiomyopathy 3. Orthologous to human TPM1 (tropomyosin 1).

Overview

Product Name	Anti-Zebrafish TPM1 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish TPM1 Antibody Picoband® catalog # AZA0A1L6UW63. 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	A0A1L6UW63

Technical Details

Immunogen	E.coli-derived Zebrafish TPM1 recombinant protein (Position: K7-K264).
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 Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

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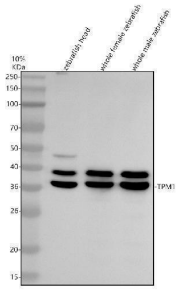
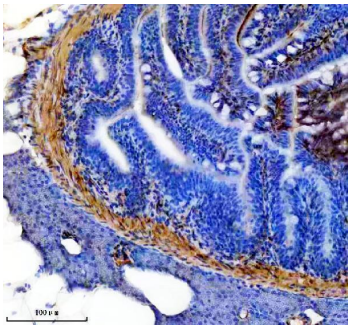
Anti-Zebrafish TPM1 Antibody Picoband® (AZA0A1L6UW63) Images



Western blot analysis of TPM1 using anti-TPM1 antibody (AZA0A1L6UW63). 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-TPM1 antigen affinity purified polyclonal antibody (AZA0A1L6UW63) 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 TPM1 at approximately 36 kDa. The expected band size for TPM1 is at 32 kDa.



IHC analysis of TPM1 using anti-TPM1 antibody (AZA0A1L6UW63). TPM1 was detected in a paraffin-embedded section of zebrafish colon 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-TPM1 Antibody (AZA0A1L6UW63) 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 TPM1 Antibody

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