BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Zebrafish ATF4 Antibody Picoband®

Catalog Number: AZQ6NW59

About ATF4

Predicted to enable several functions, including DNA-binding transcription activator activity, RNA polymerase II-specific; cAMP response element binding protein binding activity; and protein heterodimerization activity. Predicted to be involved in several processes, including intracellular signal transduction; lens fiber cell morphogenesis; and regulation of transcription by RNA polymerase II. Predicted to act upstream of or within regulation of DNA-templated transcription and rhythmic process. Predicted to be part of ATF1-ATF4 transcription factor complex and ATF4-CREB1 transcription factor complex. Predicted to be active in nucleus. Is expressed in several structures, including eye; hindbrain; liver; muscle; and trunk. Human ortholog(s) of this gene implicated in prostate carcinoma. Orthologous to human ATF4 (activating transcription factor 4).

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Overview

Product Name	Anti-Zebrafish ATF4 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish ATF4 Antibody Picoband® catalog # AZQ6NW59. 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	Q6NW59

Technical Details

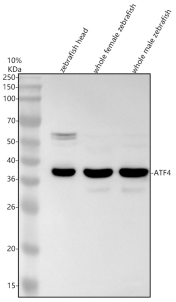
Immunogen	E.coli-derived Zebrafish ATF4 recombinant protein (Position: R238-R339).

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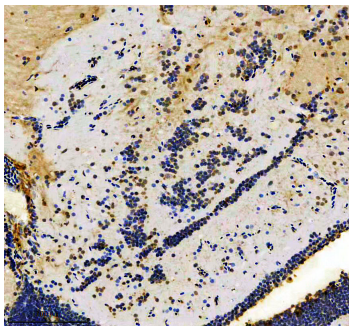
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry (Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

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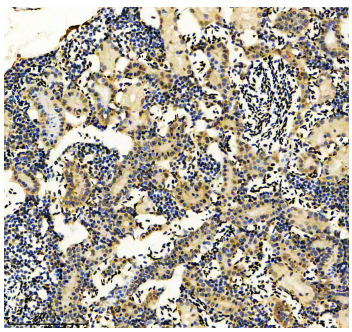
Anti-Zebrafish ATF4 Antibody Picoband® (AZQ6NW59) Images



Western blot analysis of ATF4 using anti-ATF4 antibody (AZQ6NW59). 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-ATF4 antigen affinity purified polyclonal antibody (AZQ6NW59) 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 ATF4 at approximately 38 kDa. The expected band size for ATF4 is at 36 kDa.



IHC analysis of ATF4 using anti-ATF4 antibody (AZQ6NW59). ATF4 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-ATF4 Antibody (AZQ6NW59) 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.



IHC analysis of ATF4 using anti-ATF4 antibody (AZQ6NW59). ATF4 was detected in a paraffin-embedded section of zebrafish kidney 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-ATF4 Antibody (AZQ6NW59) 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.

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