BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Zebrafish CCT4 Antibody Picoband®

Catalog Number: AZQ6PH46

About CCT4

T-complex protein 1 subunit delta is a protein that in humans is encoded by the CCT4 gene. This gene is mapped to 2p15. The chaperonin containing TCP1 complex (CCT), also called the TCP1 ring complex, consists of 2 back-to-back rings, each containing 8 unique but homologous subunits, such as CCT4. CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP-driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin and tubulin, as well as alpha-transducin.

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Overview

Product Name	Anti-Zebrafish CCT4 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish CCT4 Antibody Picoband® catalog # AZQ6PH46. 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	Q6PH46

Technical Details

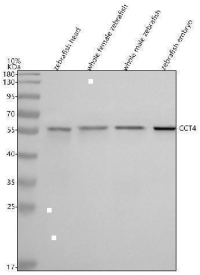
Immunogen	E.coli-derived zebrafish CCT4 recombinant protein (Position: R446-R533).
Form	Lyophilized

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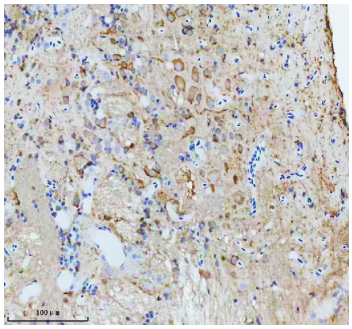
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish Immunofluorescence, 5 ug/ml, Zebrafish

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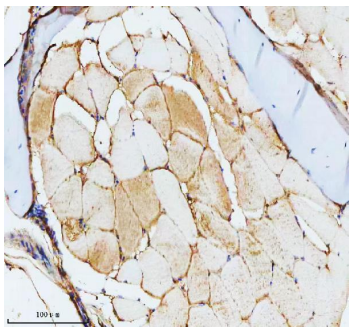
Anti-Zebrafish CCT4 Antibody Picoband® (AZQ6PH46) Images



Western blot analysis of CCT4 using anti-CCT4 antibody (AZQ6PH46). 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-CCT4 antigen affinity purified polyclonal antibody (AZQ6PH46) 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 CCT4 at approximately 58 kDa. The expected band size for CCT4 is at 58 kDa.



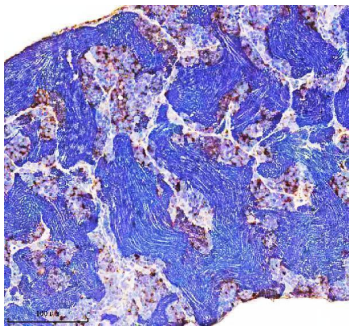
IHC analysis of CCT4 using anti-CCT4 antibody (AZQ6PH46). CCT4 was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CCT4 Antibody (AZQ6PH46) 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.



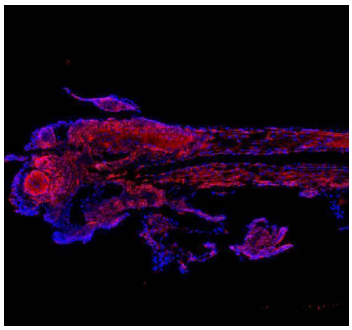
IHC analysis of CCT4 using anti-CCT4 antibody (AZQ6PH46). CCT4 was detected in a paraffin-embedded section of zebrafish skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CCT4 Antibody (AZQ6PH46) 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 CCT4 using anti-CCT4 antibody (AZQ6PH46). CCT4 was detected in a paraffin-embedded section of zebrafish testis tissue. Heat mediated antigen retrieval was

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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-CCT4 Antibody (AZQ6PH46) 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 CCT4 using anti-CCT4 antibody (AZQ6PH46). CCT4 was detected in paraffin-embedded section of zebrafish embryo tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-CCT4 Antibody (AZQ6PH46) 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.

Anti-Zebrafish CCT4 Antibody

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