BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish DNAJA2a/b Antibody Picoband®

Catalog Number: AZQ7ZUP5

About DNAJA2a/b

DnaJ homolog subfamily A member 2 is a protein that in humans is encoded by the DNAJA2 gene. It is mapped to 16q11.2. The protein encoded by this gene belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid J domain, usually at the N terminus; a glycine/phenylalanine (G/F)-rich region; and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain. The product of this gene works as a cochaperone of Hsp70s in protein folding and mitochondrial protein import in vitro.

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Overview

Product Name	Anti-Zebrafish DNAJA2a/b Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish-DNAJA2a-b-Antibody Picoband® catalog # AZQ7ZUP5. 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	Q7ZUP5

Technical Details

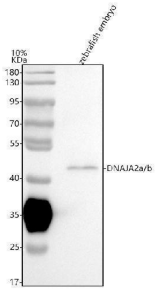
Immunogen	E.coli-derived zebrafish DNAJA2a/b recombinant protein (Position: M1-Q230).
Form	Lyophilized

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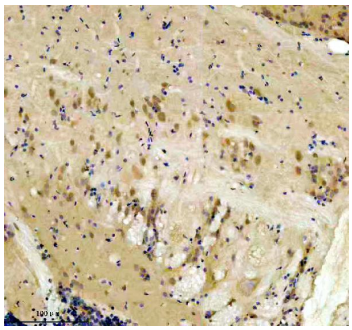
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

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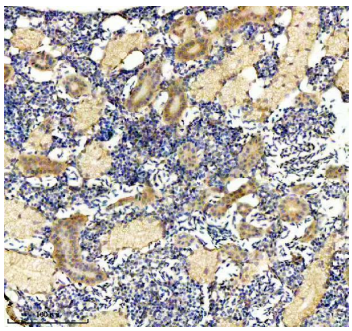
Anti-Zebrafish DNAJA2a/b Antibody Picoband® (AZQ7ZUP5) Images



Western blot analysis of DNAJA2a/b using anti-DNAJA2a/b antibody (AZQ7ZUP5). 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 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-DNAJA2a/b antigen affinity purified polyclonal antibody (AZQ7ZUP5) 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 DNAJA2a/b at approximately 46 kDa. The expected band size for DNAJA2a/b is at 46 kDa.



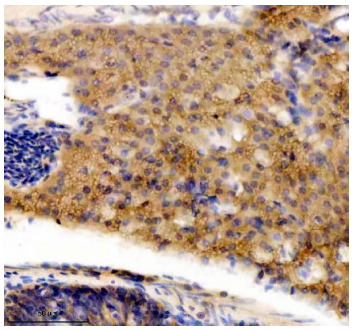
IHC analysis of DNAJA2a/b using anti-DNAJA2a/b antibody (AZQ7ZUP5). DNAJA2a/b was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DNAJA2a/b Antibody (AZQ7ZUP5) 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.



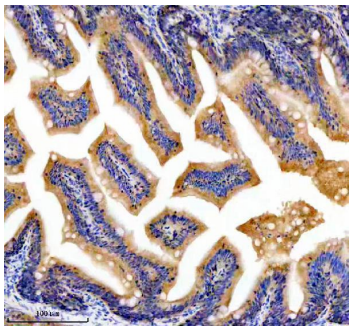
IHC analysis of DNAJA2a/b using anti-DNAJA2a/b antibody (AZQ7ZUP5). DNAJA2a/b was detected in a paraffin-embedded section of zebrafish kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DNAJA2a/b Antibody (AZQ7ZUP5) 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 DNAJA2a/b using anti-DNAJA2a/b antibody (AZQ7ZUP5). DNAJA2a/b was detected in a paraffin-embedded section of zebrafish pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was

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blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DNAJA2a/b Antibody (AZQ7ZUP5) 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 DNAJA2a/b using anti-DNAJA2a/b antibody (AZQ7ZUP5). DNAJA2a/b 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-DNAJA2a/b Antibody (AZQ7ZUP5) 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 DNAJA2a/b Antibody

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