BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish SMARCA4A Antibody Picoband®

Catalog Number: AZQ7ZSY3

About SMARCA4A

Predicted to enable DNA binding activity; chromatin binding activity; and nucleosome array spacer activity. Acts upstream of or within several processes, including camera-type eye development; heart development; and nervous system development. Predicted to be part of SWI/SNF complex. Predicted to be active in chromatin and nucleus. Is expressed in several structures, including hematopoietic multipotent progenitor cell; mesoderm; nervous system; pectoral fin; and presumptive neural retina. Human ortholog(s) of this gene implicated in Coffin-Siris syndrome 4; hepatocellular carcinoma; lung non-small cell carcinoma; and rhabdoid tumor predisposition syndrome 2. Orthologous to human SMARCA4 (SWI/SNF related BAF chromatin remodeling complex subunit ATPase 4).

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Overview

Product Name	Anti-Zebrafish SMARCA4A Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish SMARCA4A Antibody Picoband® catalog # AZQ7ZSY3. 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	Q7ZSY3

Technical Details

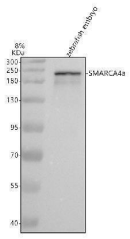
Immunogen	E.coli-derived zebrafish SMARCA4A recombinant protein (Position: Q573-E775).

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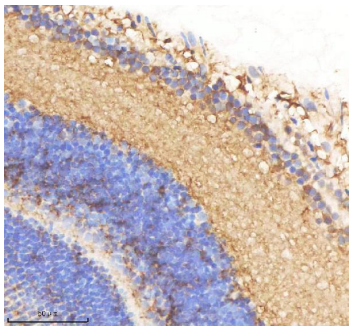
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish Immunofluorescence, 5 ug/ml,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

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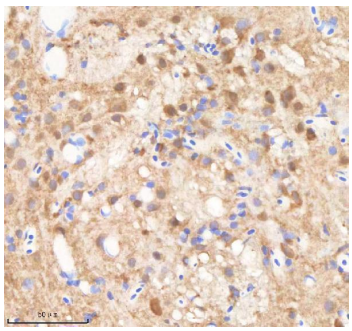
Anti-Zebrafish SMARCA4A Antibody Picoband® (AZQ7ZSY3) Images



Western blot analysis of SMARCA4A using anti-SMARCA4A antibody (AZQ7ZSY3). Electrophoresis was performed on a 8% 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-SMARCA4A antigen affinity purified polyclonal antibody (AZQ7ZSY3) 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 SMARCA4A at approximately 220 kDa. The expected band size for SMARCA4A is at 185 kDa.



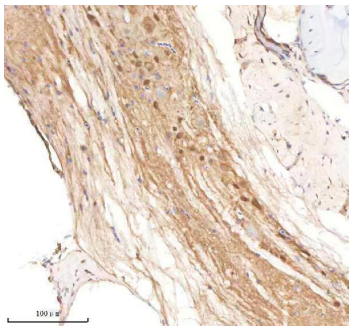
IHC analysis of SMARCA4A using anti-SMARCA4A antibody (AZQ7ZSY3). SMARCA4A was detected in a paraffin-embedded section of zebrafish eye tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SMARCA4A Antibody (AZQ7ZSY3) 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.



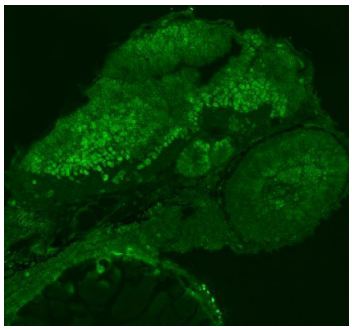
IHC analysis of SMARCA4A using anti-SMARCA4A antibody (AZQ7ZSY3). SMARCA4A was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SMARCA4A Antibody (AZQ7ZSY3) 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 SMARCA4A using anti-SMARCA4A antibody (AZQ7ZSY3). SMARCA4A was detected in a paraffin-embedded section of zebrafish spinal cord 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-SMARCA4A Antibody (AZQ7ZSY3) 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 SMARCA4A using anti-SMARCA4A antibody (AZQ7ZSY3). SMARCA4A was detected in a paraffin-embedded section of zebrafish embryo 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-SMARCA4A Antibody (AZQ7ZSY3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-Zebrafish SMARCA4A Antibody

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