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

Anti-Zebrafish SMAD4a Antibody Picoband®

Catalog Number: AZA0ACM8QFG4

About SMAD4a

Enables sequence-specific DNA binding activity. Contributes to transcription cis-regulatory region binding activity. Acts upstream of or within several processes, including determination of ventral identity; regulation of transmembrane receptor protein serine/threonine kinase signaling pathway; and striated muscle tissue development. Located in nucleus. Part of SMAD protein complex. Is expressed in several structures, including digestive system; head; heart; immature eye; and pleuroperitoneal region. Human ortholog(s) of this gene implicated in several diseases, including female reproductive organ cancer (multiple); hereditary hemorrhagic telangiectasia; juvenile polyposis syndrome; juvenile polyposis-hereditary hemorrhagic telangiectasia syndrome; and seminoma. Orthologous to human SMAD4 (SMAD family member 4).

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Overview

Product Name	Anti-Zebrafish SMAD4a Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish SMAD4a Antibody Picoband® catalog # AZA0ACM8QFG4. Tested in WB 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	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	A0ACM8QFG4

Technical Details

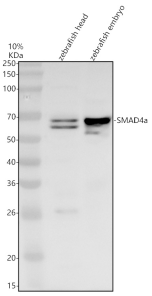
Immunogen	E.coli-derived Zebrafish SMAD4a recombinant protein (Position: L153-H270).

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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

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Anti-Zebrafish SMAD4a Antibody Picoband® (AZA0ACM8QFG4) Images



Western blot analysis of SMAD4a using anti-SMAD4a antibody (AZA0ACM8QFG4). 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: 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-SMAD4a antigen affinity purified polyclonal antibody (AZA0ACM8QFG4) 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 SMAD4a at approximately 60 kDa. The expected band size for SMAD4a is at 55 kDa.

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