

Anti-Zebrafish HOXB4A Antibody Picoband®

Catalog Number: AZP22574

About HOXB4A

Predicted to enable DNA-binding transcription factor activity, RNA polymerase II-specific and RNA polymerase II cis-regulatory region sequence-specific DNA binding activity. Predicted to be involved in anterior/posterior pattern specification; embryonic skeletal system morphogenesis; and positive regulation of transcription by RNA polymerase II. Predicted to act upstream of or within regulation of DNA-templated transcription. Predicted to be located in nucleus. Predicted to be active in nucleoplasm. Is expressed in several structures, including hindbrain neural keel; nervous system; neural rod; pharyngeal arch; and somite. Orthologous to human HOXB4 (homeobox B4).

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Overview

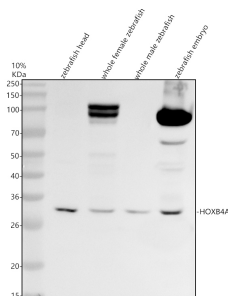
Product Name	Anti-Zebrafish HOXB4A Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish HOXB4A Antibody Picoband® catalog # AZP22574. Tested in WB applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees 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 Na ₂ HPO ₄ .
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	P22574

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of zebrafish HOXB4A.(PSFQHESIYHQRSGCADPP).
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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

Anti-Zebrafish HOXB4A Antibody Picoband® (AZP22574) Images



Western blot analysis of HOXB4A using anti-HOXB4A antibody (AZP22574). 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-HOXB4A antigen affinity purified polyclonal antibody (AZP22574) 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 HOXB4A at approximately 28 kDa. The expected band size for HOXB4A is at 28 kDa.

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