BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish COL2A1b Antibody Picoband®

Catalog Number: AZL0S5L0

About COL2A1b

Predicted to be an extracellular matrix structural constituent conferring tensile strength. Acts upstream of or within fin morphogenesis. Predicted to be located in extracellular region. Predicted to be part of collagen trimer. Predicted to be active in collagen-containing extracellular matrix and extracellular space. Is expressed in several structures, including axis; central nervous system; epidermal cell; fin fold pectoral fin bud; and skeletal system. Human ortholog(s) of this gene implicated in Stickler syndrome (multiple); bone disease (multiple); cleft palate; eye disease (multiple); and multiple epiphyseal dysplasia with myopia and deafness. Orthologous to human COL2A1 (collagen type II alpha 1 chain).

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Overview

Product Name	Anti-Zebrafish COL2A1b Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish COL2A1b Antibody Picoband® catalog # AZL0S5L0. 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	L0S5L0

Technical Details

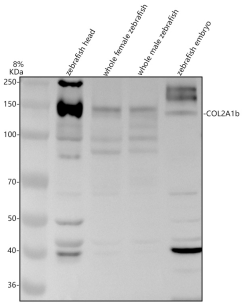
Immunogen	E.coli-derived Zebrafish COL2A1b recombinant protein (Position: I1224-Q1380).
Form	Lyophilized

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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

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Anti-Zebrafish COL2A1b Antibody Picoband® (AZL0S5L0) Images



Western blot analysis of COL2A1b using anti-COL2A1b antibody (AZL0S5L0). 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 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-COL2A1b antigen affinity purified polyclonal antibody (AZL0S5L0) 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 COL2A1b at approximately 142 kDa. The expected band size for COL2A1b is at 142 kDa.

Anti-Zebrafish COL2A1b Antibody

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