

Anti-col6a2 Antibody Picoband®

Catalog Number: A03194-3

About col6a2

Collagen alpha-2(VI) chain is a protein that in humans is encoded by the COL6A2 gene. Acts upstream of or within axonogenesis; muscle cell development; and muscle organ development. Predicted to be active in collagen-containing extracellular matrix and extracellular space. Is expressed in several structures, including anterior segment eye; gut; integument; musculature system; and yolk syncytial layer. Human ortholog(s) of this gene implicated in Ullrich congenital muscular dystrophy. Orthologous to human COL6A2 (collagen type VI alpha 2 chain).

Overview

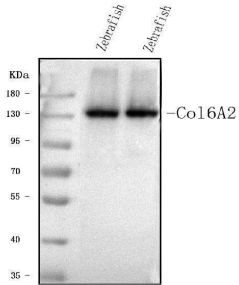
Product Name	Anti-col6a2 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-col6a2 Antibody Picoband® catalog # A03194-3. Tested in ELISA, IHC, WB applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees superior 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	ELISA, IHC, 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	E7FCV8

Technical Details

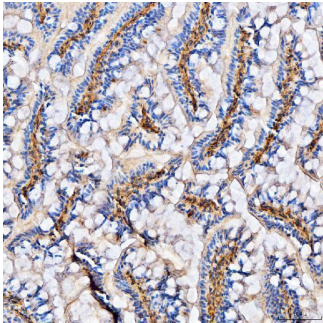
Immunogen	E.coli-derived zebrafish col6a2 recombinant protein (Position: D734-C1015).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/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 ELISA, 0.1-0.5 ug/ml, Zebrafish

Anti-col6a2 Antibody Picoband® (A03194-3) Images



Western blot analysis of Col6a2 using anti-Col6a2 antibody (A03194-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: zebrafish tissue lysates, Lane 2: zebrafish 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-Col6a2 antigen affinity purified polyclonal antibody (Catalog # A03194-3) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Col6a2 at approximately 140 kDa. The expected band size for Col6a2 is at 140 kDa.



IHC analysis of Col6a2 using anti-Col6a2 antibody (A03194-3). Col6a2 was detected in a paraffin-embedded section of zebrafish 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-Col6a2 Antibody (A03194-3) 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.

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Anti-col6a2 Antibody

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