

## 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.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Zebrafish

Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Zebrafish

Direct ELISA, 0.1-0.5 µg/ml, Zebrafish

## Anti-col6a2 Antibody Picoband™ (A03194-3) Images

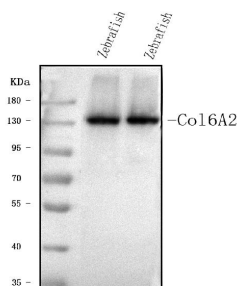


Figure 1. Western blot analysis of Col6a2 using anti-Col6a2 antibody (A03194-3).

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.

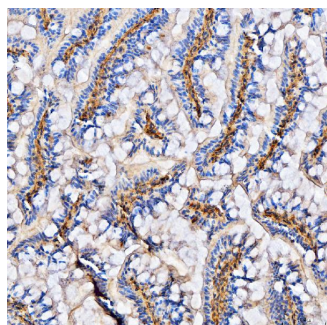


Figure 2. IHC analysis of Col6a2 using anti-Col6a2 antibody (A03194-3).

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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