BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-COL6A1 Antibody (C-term)

Catalog Number: A02226-4

About COL6A1

The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The protein COL6A1 is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.

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Overview

Product Name	Anti-COL6A1 Antibody (C-term)
Reactive Species	Human
Description	Boster Bio Anti-COL6A1 Antibody (C-term) (Catalog # A02226-4). Tested in WB, IF, Flow Cytometry, IHC-P application(s). This antibody reacts with Human.
Application	Flow Cytometry, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P12109

Technical Details

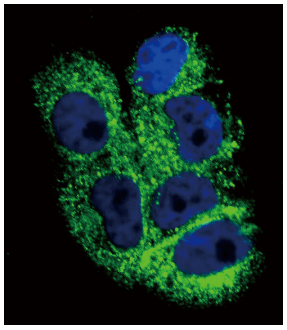
Immunogen	This COL6A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 831-858 amino acids from the C-terminal region of human COL6A1.
Predicted Reactive Species	Bovine, Rabbit, Rat
Isotype	Rabbit IgG

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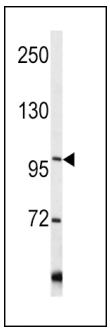
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Suggested Dilutions	IF: 1:10-1:50 WB: 1:500-1:1000 IHC-P: 1:10-1:50 FC: 1:10-1:50

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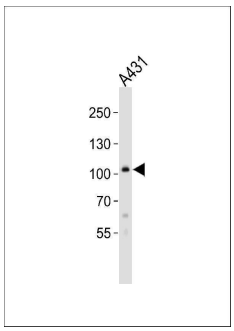
Anti-COL6A1 Antibody (C-term) (A02226-4) Images



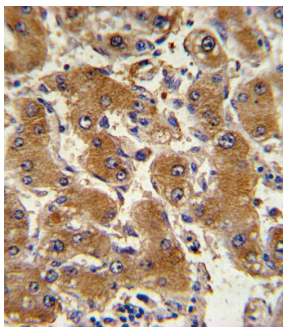
Confocal immunofluorescent analysis of COL6A1 Antibody (C-term) with A2058 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of COL6A1 antibody (C-term) in Y79 cell line lysates (35ug/lane). COL6A1 (arrow) was detected using the purified Pab.



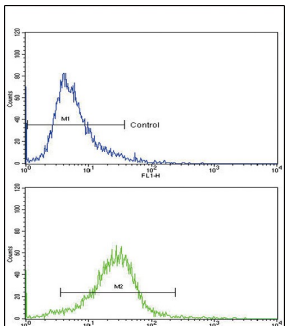
Western blot analysis of lysate from A431 cell line, using COL6A1 Antibody (C-term). A02226-4 diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Formalin-fixed and paraffin-embedded human hepatocarcinoma with COL6A1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of 293 cells using COL6A1 Antibody (C-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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