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COL6A1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6587B

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P12109
Reactivity	Human, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19577
Calculated MW	108529
Antigen Region	831-858

Additional Information

Gene ID	1291
Other Names	Collagen alpha-1(VI) chain, COL6A1
Target/Specificity	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.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	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.
Precautions	COL6A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COL6A1
Function	Collagen VI acts as a cell-binding protein.
Cellular Location	Secreted, extracellular space, extracellular matrix

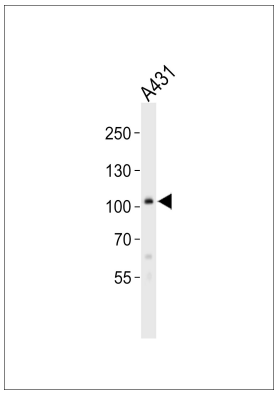
Background

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.

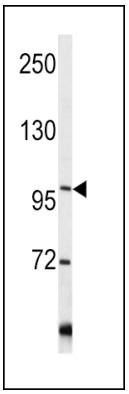
References

Martoni,E., Hum. Mutat. 30 (5), E662-E672 (2009)
Kim,T.H., J. Rheumatol. 35 (9), 1849-1852 (2008)
Fujita,A., Genet. Mol. Res. 7 (2), 371-378 (2008)

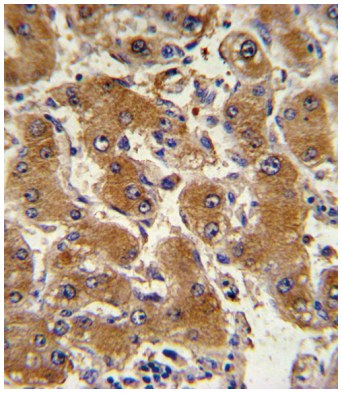
Images



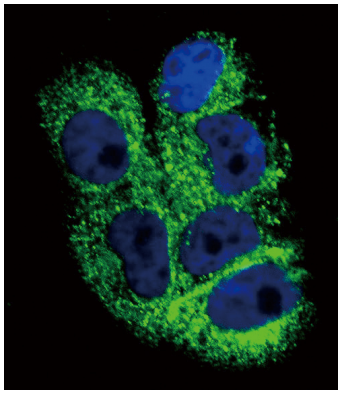
Western blot analysis of lysate from A431 cell line, using COL6A1 Antibody (C-term)(Cat. #AP6587b). AP6587b was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



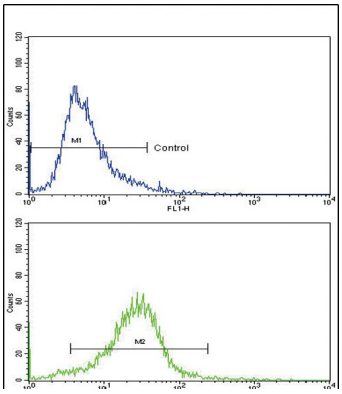
Western blot analysis of COL6A1 antibody (C-term) (Cat. #AP6587b) in Y79 cell line lysates (35ug/lane). COL6A1 (arrow) was detected using the purified Pab.



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.



Confocal immunofluorescent analysis of COL6A1 Antibody (C-term)(Cat#AP6587b) with A2058 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.