

COL6A1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6587A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P12109
Other Accession	Q04857
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19576
Calculated MW	108529
Antigen Region	48-77

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 48-77 amino acids from the N-terminal region of human COL6A1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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 (N-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.

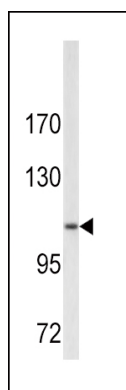
Background

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 $\alpha 1(VI)$, $\alpha 2(VI)$, and $\alpha 3(VI)$ chains. The protein COL6A1 is the $\alpha 1$ subunit of type VI collagen ($\alpha 1(VI)$ chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.

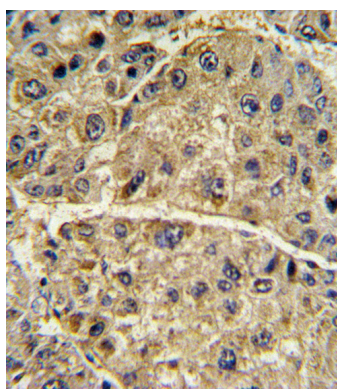
References

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)

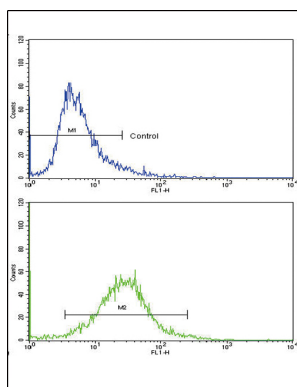
Images



Western blot analysis of COL6A1 antibody (N-term) (Cat. #AP6587a) in A2058 cell line lysates (35ug/lane). COL6A1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma with COL6A1 Antibody (N-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 (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- [Basement membrane-like structures containing NTH \$\alpha\$ 1\(IV\) are formed around the endothelial cell network in a novel in vitro angiogenesis model.](#)
- [Type VI collagen \$\alpha\$ 1 chain polypeptide in non-triple helical form is an alternative gene product of COL6A1.](#)

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