

COL21A1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12150A

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q96P44
Other Accession	NP_110447.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31769
Calculated MW	99369
Antigen Region	204-232

Additional Information

Gene ID	81578
Other Names	Collagen alpha-1(XXI) chain, COL21A1, COL1AL
Target/Specificity	This COL21A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the N-terminal region of human COL21A1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	COL21A1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COL21A1
Synonyms	COL1AL
Cellular Location	Secreted, extracellular space, extracellular matrix. Cytoplasm. Note=Found in

the extracellular matrix component of blood vessel walls and in the cytoplasm of cultured human aortic smooth muscle

Tissue Location

Highly expressed in lymph node, jejunum, pancreas, stomach, trachea, testis, uterus and placenta; moderately expressed in brain, colon, lung, prostate, spinal cord, salivary gland and vascular smooth-muscle cells and very weakly expressed in heart, liver, kidney, bone marrow, spleen, thymus, skeletal muscle, adrenal gland and peripheral leukocytes. Expression in heart was higher in the right ventricle and atrium than in the left ventricle and atrium

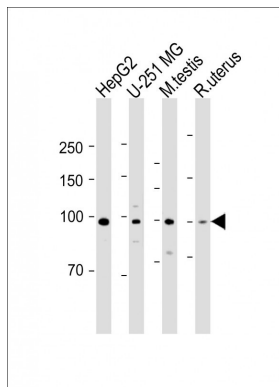
Background

This gene encodes the alpha chain of type XXI collagen, a member of the FACIT collagen family (fibril-associated collagens with interrupted helices). Type XXI collagen is localized to tissues containing type I collagen so, like other members of this collagen family, it may serve to maintain the integrity of the extracellular matrix. An alternatively spliced transcript variant has been described, but its full-length nature has yet to be determined.

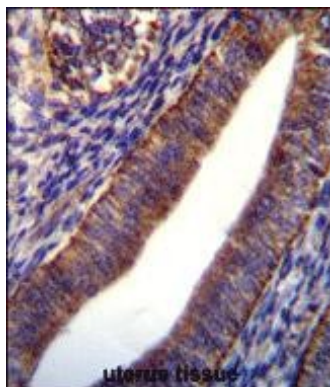
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Chou, M.Y., et al. Genomics 79(3):395-401(2002)
Tuckwell, D. Matrix Biol. 21(1):63-66(2002)
Fitzgerald, J., et al. FEBS Lett. 505(2):275-280(2001)

Images

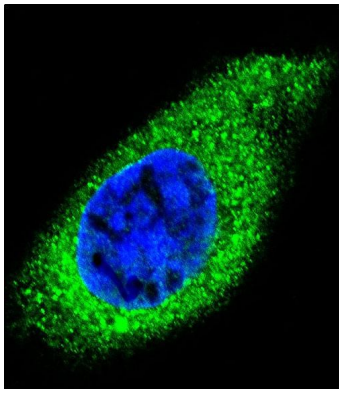


All lanes: Anti-COL21A1 Antibody (N-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: U-251 MG whole cell lysate Lane 3: Mouse testis lysate Lane 4: Rat uterus lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 99 KDa Blocking/Dilution buffer: 5% NFD/MTBST.



COL21A1 Antibody (N-term) (Cat. #AP12150a) immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of COL21A1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of COL21A1 Antibody (N-term) (Cat. #AP12150a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



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