

**COL1A1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14490b****Specification**

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**COL1A1 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P02452</a>
Other Accession	<a href="#">P02454</a> , <a href="#">P11087</a> , <a href="#">P02457</a> , <a href="#">P02453</a> , <a href="#">NP_000079.2</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Bovine, Chicken, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>138911</b>
Antigen Region	<b>1077-1106</b>

**COL1A1 Antibody (C-term) - Additional Information****Gene ID** 1277**Other Names**

Collagen alpha-1(I) chain, Alpha-1 type I collagen, COL1A1

**Target/Specificity**

This COL1A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1077-1106 amino acids from the C-terminal region of human COL1A1.

**Dilution**WB~~1:1000  
IHC-P~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

COL1A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**COL1A1 Antibody (C-term) - Protein Information****Name** COL1A1

**Function** Type I collagen is a member of group I collagen (fibrillar forming collagen).

**Cellular Location**

Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}

**Tissue Location**

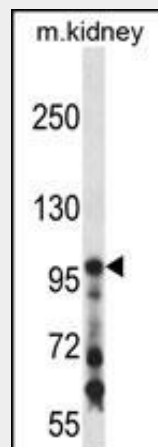
Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite

**COL1A1 Antibody (C-term) - Protocols**

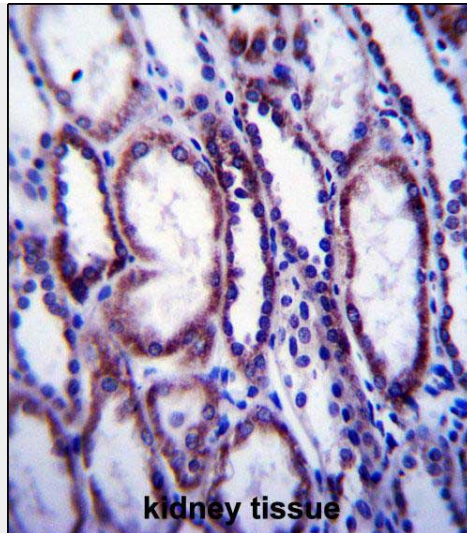
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**COL1A1 Antibody (C-term) - Images**



COL1A1 Antibody (C-term) (Cat. #AP14490b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the COL1A1 antibody detected the COL1A1 protein (arrow).



kidney tissue

COL1A1 Antibody (C-term) (Cat. #AP14490b) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of COL1A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **COL1A1 Antibody (C-term) - Background**

This gene encodes the pro- $\alpha$ 1 chains of type I collagen whose triple helix comprises two  $\alpha$ 1 chains and one  $\alpha$ 2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish].

#### **COL1A1 Antibody (C-term) - References**

Blades, H.Z., et al. Bone 47(5):989-994(2010) Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) : Jin, H., et al. Osteoporos Int (2010) In press : Szczesny, G., et al. Arch Orthop Trauma Surg (2010) In press : Cheung, M.S., et al. J. Bone Miner. Res. (2010) In press :

#### **COL1A1 Antibody (C-term) - Citations**

- [Fabrication and In Vitro Study of Tissue-Engineered Cartilage Scaffold Derived from Wharton's Jelly Extracellular Matrix.](#)