ELK Biotechnology

# COL1A2 rabbit pAb

## Cat No.:ES2021

**For research use only**

**Overview**

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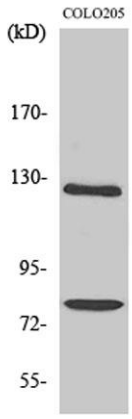
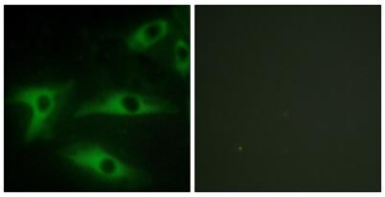
|---|---|
| **Product Name** | COL1A2 rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB;IHC;IF;ELISA |
| **Species Cross-Reactivity** | Human;Rat;Mouse; |
| **Recommended dilutions** | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human Collagen I alpha2. AA range:471-520 |
| **Specificity** | COL1A2 Polyclonal Antibody detects endogenous levels of COL1A2 protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | Collagen alpha-2(I) chain |
| **Gene Name** | COL1A2 |
| **Cellular localization** | Secreted, extracellular space, extracellular matrix . |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 125kD |
| **Human Gene ID** | 1278 |
| **Human Swiss-Prot Number** | P08123 |
| **Alternative Names** | COL1A2; Collagen alpha-2(I) chain; Alpha-2 type I collagen |
| **Background** | This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008],




Western Blot analysis of various cells using COL1A2 Polyclonal Antibody diluted at 1:1000

Immunofluorescence analysis of HeLa cells, using Collagen I alpha2 Antibody. The picture on the right is blocked with the synthesized peptide.



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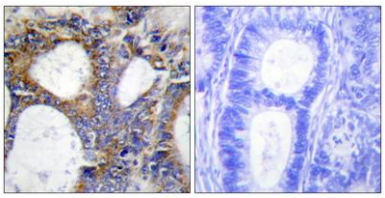
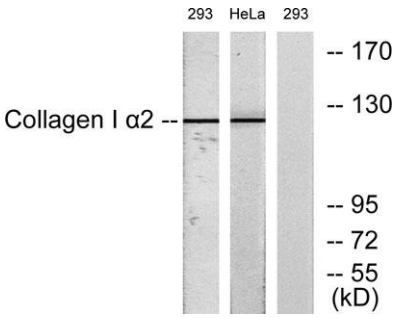


Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using Collagen I alpha2 Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from 293 and HeLa cells, using Collagen I alpha2 Antibody. The lane on the right is blocked with the synthesized peptide.

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