

COL2A1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1418a

Specification

COL2A1 Antibody (N-term) - Product Information

Application IHC-P,E Primary Accession P02458

Other Accession <u>091717, P05539, P28481, P02459, P02454,</u>

P11087, P02452, P02457, P02453

Reactivity Human

Predicted Bovine, Chicken, Mouse, Rat, Xenopus

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Antigen Region 469-497

COL2A1 Antibody (N-term) - Additional Information

Gene ID 1280

Other Names

Collagen alpha-1(II) chain, Alpha-1 type II collagen, Collagen alpha-1(II) chain, Chondrocalcin, COL2A1

Target/Specificity

This COL2A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 469-497 amino acids from the N-terminal region of human COL2A1.

Dilution

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

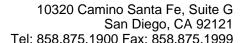
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

COL2A1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

COL2A1 Antibody (N-term) - Protein Information

Name COL2A1 (HGNC:2200)





Function Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.

Cellular Location

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

Tissue Location

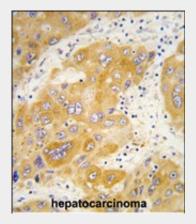
Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.

COL2A1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COL2A1 Antibody (N-term) - Images



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with COL2A1 antibody (N-term) (Cat.#AP1814a), 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.

COL2A1 Antibody (N-term) - Background

Alpha-1 chain of type II collagen is a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutant forms of this protein are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia.

COL2A1 Antibody (N-term) - References







Olavarrieta, L., Clin. Genet. 73 (3), 262-267 (2008) McAlinden, A., Hum. Mutat. 29 (1), 83-90 (2008) Forzano, F., Am. J. Med. Genet. A 143 (23), 2815-2820 (2007) **COL2A1 Antibody (N-term) - Citations**

• Fabrication and In Vitro Study of Tissue-Engineered Cartilage Scaffold Derived from Wharton's Jelly Extracellular Matrix.