

Anti-Collagen I Picoband Antibody
Catalog # ABO12623**Specification****Anti-Collagen I Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	P02452
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Collagen alpha-1(I) chain(COL1A1) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Collagen I Picoband Antibody - Additional Information

Gene ID 1277

Other Names

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

Calculated MW

138941 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted, extracellular space, extracellular matrix .

Tissue Specificity

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

Protein Name

Collagen alpha-1(I) chain

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen I (1194-1218aa AGFDFSFLPQPPQEKAHDGGGRYYRA), different from the related mouse and rat sequences by four amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Collagen I Picoband Antibody - 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}

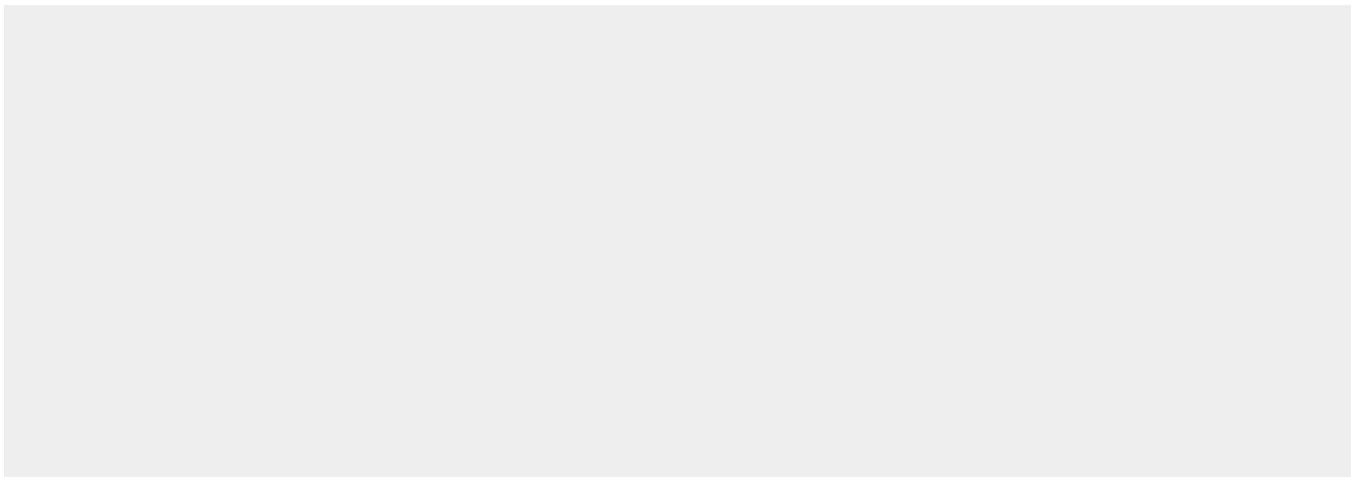
Tissue Location

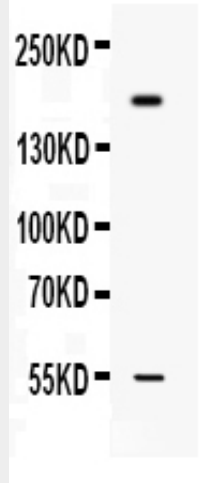
Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite

Anti-Collagen I Picoband Antibody - Protocols

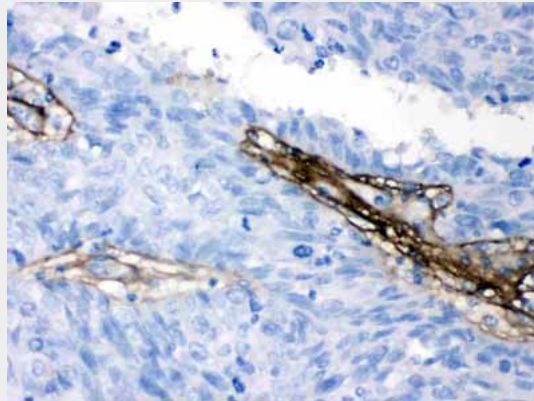
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Collagen I Picoband Antibody - Images



Western blot analysis of Collagen I expression in MCF-7 whole cell lysates (lane 1). Collagen I at 180KD;55KD was detected using rabbit anti- Collagen I Antigen Affinity purified polyclonal antibody (Catalog # ABO12623) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



Collagen I was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Collagen I Antigen Affinity purified polyclonal antibody (Catalog # ABO12623) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-Collagen I Picoband Antibody - Background

Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. This gene is mapped to 17q21.33. And this gene encodes the pro-alpha1 chains 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 VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis.