

Anti-Collagen I Antibody

Catalog # ABO11450

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	P11087
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Collagen alpha-1(I) chain(COL1A1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	12842
Other Names	Collagen alpha-1(I) chain, Alpha-1 type I collagen, Col1a1, Cola1
Calculated MW	138032
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Immunocytochemistry , 0.5-1 μ g/ml, Mouse, Human, Rat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Human, Rat, Mouse Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
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.
Source	Eukaryota
Protein Name	Collagen alpha-1(I) chain
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen I(1192-1207aa QPPQEKSDGGYYRA), identical to the related rat sequence, and different from the related human sequence by two 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.
Sequence Similarities	Belongs to the fibrillar collagen family.

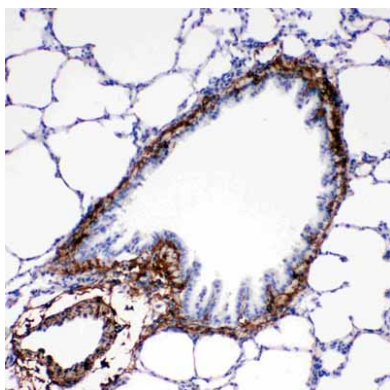
Protein Information

Name	Col1a1 {ECO:0000312 MGI:MGI:88467}
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

Background

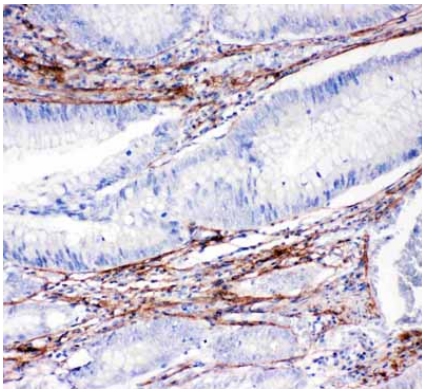
Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. This gene is mapped to 17q21.33. This gene encodes the pro-alpha1 chains of type I collagen whose triple 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.

Images

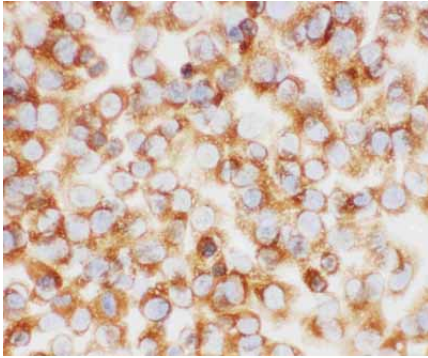


Anti-Collagen I antibody, ABO11450, IHC(P)IHC(P): Rat Lung Tissue

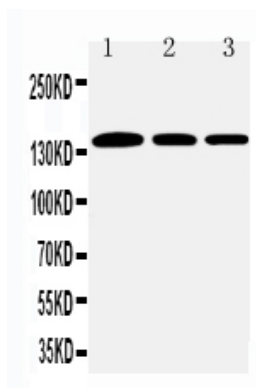
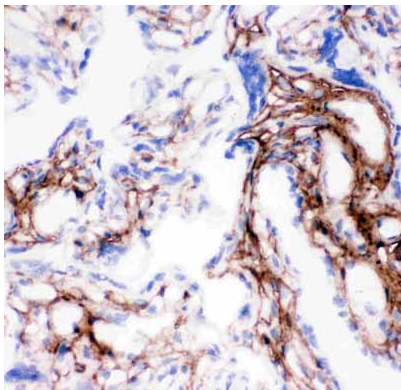
Anti-Collagen I antibody, ABO11450, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-Collagen I antibody, ABO11450, ICCICC: NIH3T3 Cell



Anti-Collagen I antibody, ABO11450, IHC(F)IHC(F): Human Placenta Tissue



Anti-Collagen I antibody, ABO11450, Western blotting
Lane 1: Rat Lung Tissue Lysate
Lane 2: Human Placenta Tissue Lysate
Lane 3: Rat Testis Tissue Lysate

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