BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Collagen Type I/COL1A1 Antibody
Gene Name	COL1A1
Source	Rabbit
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS，0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen I (1185-1207aa YDFSFLPQPPQEKSQDGGRYYRA), different from the related human sequence by three amino acids, and identical to the related rat sequence.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	180-200KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.
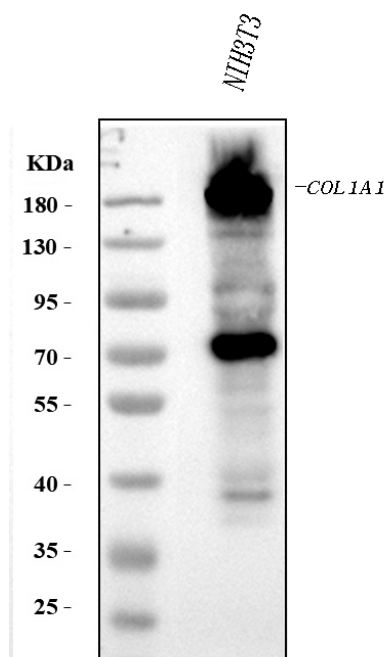
Background Information

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.

Reference

Anti-Collagen Type I/COL1A1 Antibody   23

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE

Product datasheet
Anti-Collagen Type I/COL1A1 Antibody
Catalog Number: *PB0981*

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Selected Validation Data

Western blot analysis of Collagen I expression in Lane 1: mouse NIH/3T3 whole cell lysates. Collagen I at 139-180KD was detected using rabbit anti-Collagen I Antigen Affinity purified polyclonal antibody (Catalog # PB0981) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).