

Basic Information

Product Name	Anti-COL10A1 Antibody	
Gene Name	COL10A1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat, rabbit	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	Polypeptide	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	66 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (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°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

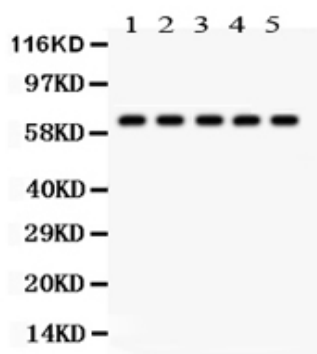
Background Information

This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD).

Reference

Anti-COL10A1 Antibody 被引用在31文献中。

Selected Validation Data



Western blot analysis of COL10A1 using anti-COL10A1 antibody (BA2023). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat liver tissue lysates,

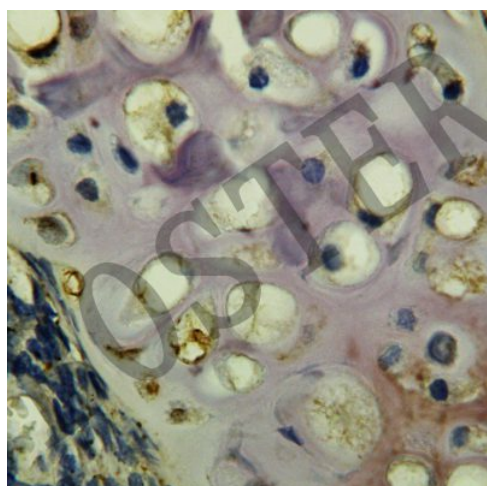
Lane 2: human MCF-7 whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: human SMMC whole cell lysates,

Lane 5: human COLO320 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-COL10A1 antigen affinity purified polyclonal antibody (BA2023) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for COL10A1 at approximately 66 kDa. The expected band size for COL10A1 is at 66 kDa.



IHC analysis of COL10A1 using anti-COL10A1 antibody (BA2023). COL10A1 was detected in a paraffin-embedded section of rat trachea tissue. The tissue section was incubated with rabbit anti-COL10A1 Antibody (BA2023) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.