Product datasheet

Anti-Collagen Type I/COL1A1 Antibody

Catalog Number: *BA0325*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Collagen Type I/COL1A1 Antibody
Gene Name	COL1A1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen I, identical to the related rat sequence, and different from the related human sequence by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	130/220/250 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:200-1000 Immunofluorescence (IF): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 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. 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.

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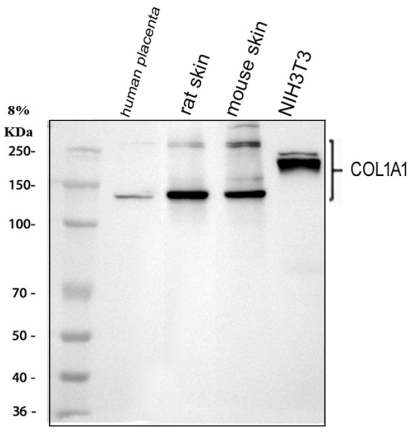
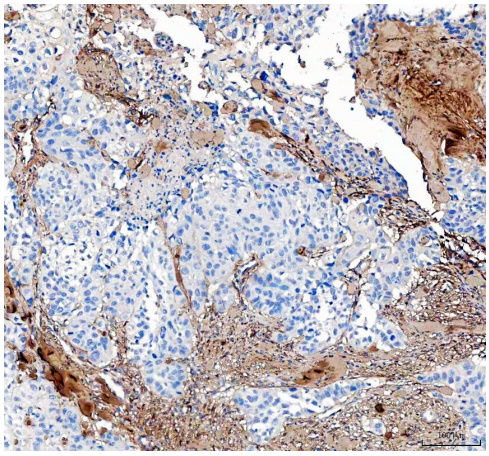
Reference

Anti-Collagen Type I/COL1A1 Antibody 被引用在220文献中。

Selected Validation Data



Western blot analysis of Collagen Type I/COL1A1 using anti-Collagen Type I/COL1A1 antibody (BA0325). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: rat skin tissue lysates,
Lane 3: mouse skin tissue lysates,
Lane 4: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Collagen Type I/COL1A1 antigen affinity purified polyclonal antibody (BA0325) 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 Collagen Type I/COL1A1 at approximately 130/220/250 kDa. The expected band size for Collagen Type I/COL1A1 is at 138 kDa.



IHC analysis of Collagen Type I/COL1A1 using anti-Collagen Type I/COL1A1 antibody (BA0325) .
Collagen Type I/COL1A1 was detected in a paraffin-embedded section of human bladder cancer tissue. The tissue section was incubated with rabbit anti-Collagen Type I/COL1A1 Antibody (BA0325) 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.

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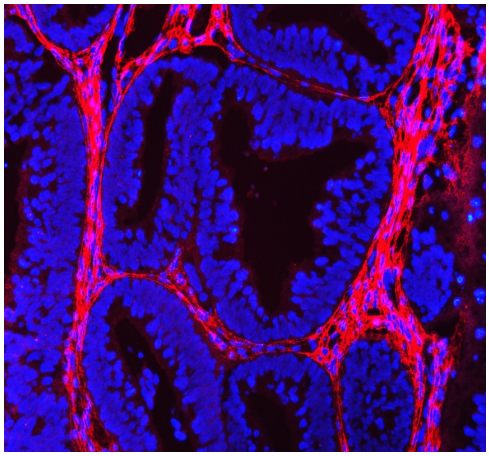

IF analysis of Collagen Type I/COL1A1 using anti-Collagen Type I/COL1A1 antibody (BA0325).
Collagen Type I/COL1A1 was detected in a paraffin-embedded section of human endometrial cancer tissue. The tissue section was incubated with rabbit anti-Collagen Type I/COL1A1 Antibody (BA0325) at a dilution of 1:100. Dylight550-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1135) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).