

Datasheet for ABIN6138837  
**anti-COL1A1 antibody (AA 100-200)**[Go to Product page](#)

## 11 Images

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | COL1A1   |
| Binding Specificity: | AA 100-200   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This COL1A1 antibody is un-conjugated                                      |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | A synthetic peptide corresponding to a sequence within amino acids 100-200 of human COL1A1 (NP_000079.2).           |
| Sequence:         | ESPTDQETT G VEGPKGDTGP RGPRGPAGPP GRDGIPGQPG LPGPPGPPGP PGPPGLGGNF<br>APQLSYGYDE KSTGGISVPG PMGPSGPRGL PGPPGAPGPQ G |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Characteristics:  | Polyclonal Antibodies   |
| Purification:     | Affinity purification   |

## Target Details

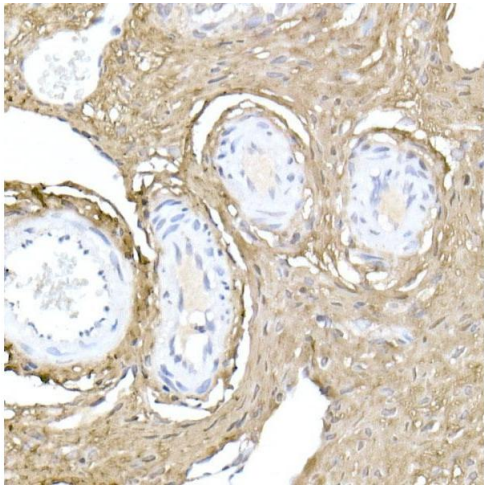
|                   |   |
|-------------------|---|
| Target:           | COL1A1  |
| Alternative Name: | COL1A1 ( <a href="#">COL1A1 Products</a> )  |
| Background:       | <p>This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. 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. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.,COL1A1,EDSC,OI1,OI2,OI3,OI4,COL1A1</p> |
| Molecular Weight: | 138 kDa   |
| Gene ID:          | 1277  |
| UniProt:          | <a href="#">P02452</a>  |
| Pathways:         | <a href="#">Sensory Perception of Sound</a> , <a href="#">Autophagy</a> , <a href="#">Growth Factor Binding</a>   |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200 |
| Restrictions:      | For Research Use only                              |

## Handling

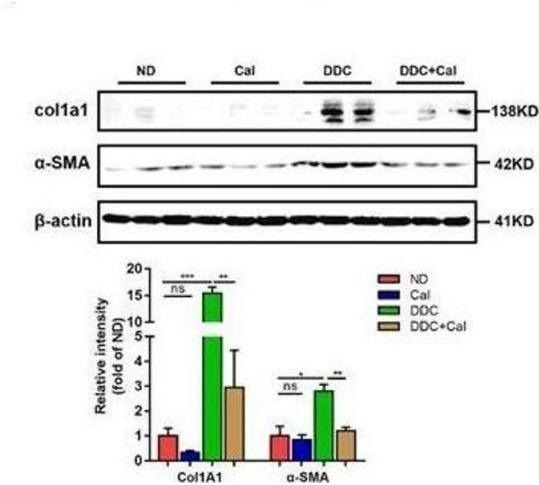
|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20°C. Avoid freeze / thaw cycles.  |



### Immunohistochemistry

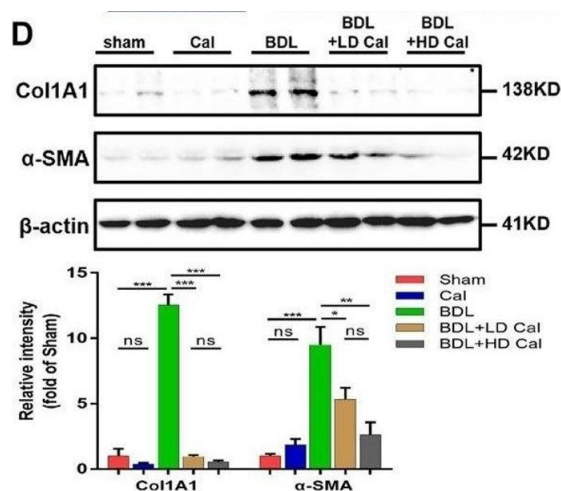
**Image 1.** Immunohistochemistry of paraffin-embedded rat ovary using Collagen I/COL1 Rabbit pAb (352) at dilution of 1:150 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

D



### Western Blotting

**Image 2.** Calcipotriol alleviates DDC-induced liver injury and fibrosis. (A) Gross picture, hematoxylin and eosin (H&E) staining, Masson staining, Sirius Red staining and Immunohistochemistry (IHC) staining for α-SMA of representative mouse liver samples of ND, Cal, DDC, DDC + Cal at 2 and 4 weeks. Scale bar = 100 μm. (B) Quantification of necrotic area from H&E sections. (C) Image quantification of α-SMA expression. (D) Detection of protein expression of α-SMA and Col1A1 in liver samples with Western blot analysis. β-Actin was used as the control. Gray scale analysis was performed. (E) Detection of mRNA expression of α-SMA, Col1A1, vim, and TGF-β1 in liver samples with RT-PCR normalized against β-actin and expressed as 2-ΔΔCT. All data are presented as mean ± SEM (P < 0.05, P < 0.01, P < 0.001). - figure provided by CiteAb. Source: PMID32296329



### Western Blotting

**Image 3.** Calcipotriol alleviates BDL-induced liver injury and fibrosis. (A) gross picture, hematoxylin and eosin (H&E) staining, Masson staining, Sirius Red staining and Immunohistochemistry (IHC) staining for α-SMA of representative mouse liver samples of Sham, Cal, BDL, BDL + LD Cal, and BDL + HD Cal groups. Scale bar = 100 μm. (B) Quantification of necrotic area from H&E sections. (C) Image quantification of α-SMA expression. (D) Detection of protein expression of α-SMA and Col1A1 in liver samples with Western blot analysis. β-actin was used as the control. Gray scale analysis was performed. (E) Detection of mRNA expression of α-SMA, Col1A1, vim, and TGF-β1 in liver samples with real-time polymerase chain reaction (RT-PCR) normalized against β-actin and expressed as 2-ΔΔCT. All data are presented as mean ± SEM (\*P < 0.05, \*\*P < 0.01, \*\*\*P < 0.001, \*\*\*\*P < 0.0001). - figure provided by CiteAb. Source: PMID32296329

Please check the [product details page](#) for more images. Overall 11 images are available for ABIN6138837.