

Product Data Sheet: Collagen Type I Rabbit Polyclonal Antibody

Cat. No: AB-82138 Conjugate: Unconjugated

Size: 100 ug Clone: **POLY Concentration:** 1mg/ml Host: Rabbit

Isotype:

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.

Reactivity: Human, Mouse, Rat

Western Blot: 1:500 -1:2000

Immunofluorescence: 1:50 - 1:200 **Applications:** Immunocytochemistry: 1:50 - 1:200

IqG

Immunohistochemistry: 1:50-1:200

Molecular Weight: 140kDa/220kDa

Purification: Aff. Pur.

Synonyms: COL1A1; EDSC; OI1; OI2; OI3; OI4

> 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 **Background:**

translocations between chromosomes 17 and 22, where this gene and the gene

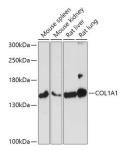
for platelet-derived growth factor beta are located, are associated with a

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.

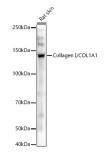
Form: Liquid

Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4. **Buffer:**

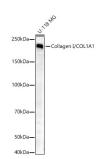
Storage: Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using COL1A1 antibody



Western blot analysis of Rat skin, using CollagenI/COL1A1 antibody



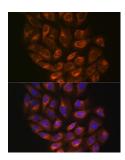
Western blot analysis of U-118 MG, using CollagenI/COL1A1 antibody at 1:800



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at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit Exposure time: 3min.



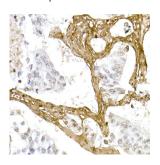
Immunofluorescence analysis of NIH/3T3 cells using Collagen I/COL1A1 Rabbit pAb (A1352) at dilution of 1:50 (40x lens).

Blue:

DAPI for nuclear staining.

at 1:800 dilution.
Secondary antibody: HRP Goat AntiRabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in
TBST.

Detection: ECL West Pico Plus. Exposure time: 3s.



Immunohistochemistry of paraffinembedded human lung cancer using Collagen I/COL1A1 Rabbit pAb at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL West Pico Plus. Exposure time: 10s.

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