

Pro-Collagen I/COL1A1 Rabbit mAb

Catalog No.: A26946 **Recombinant**

Basic Information

Observed MW

220kDa

Calculated MW

139kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity

Human

CloneNo number

ARC70097

Recommended Dilutions

WB 1:13000 - 1:78000

IHC-P 1:1000 - 1:10000

IF/ICC 1:200 - 1:800

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Contact

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Background

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.

Immunogen Information

Gene ID

1277

Swiss Prot

P02452

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 26-161 of human Collagen I/COL1A1 (NP_000079.2).

Synonyms

OI1; OI2; OI3; OI4; EDSC; CAFYD; EDSARTH1

Product Information

Source

Rabbit

Isotype

IgG

Purification

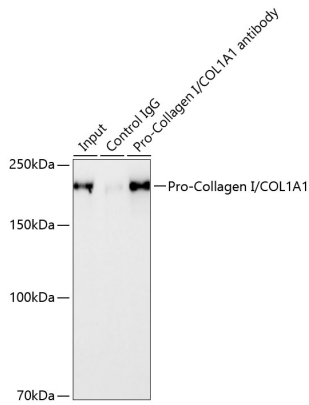
Affinity purification

Storage

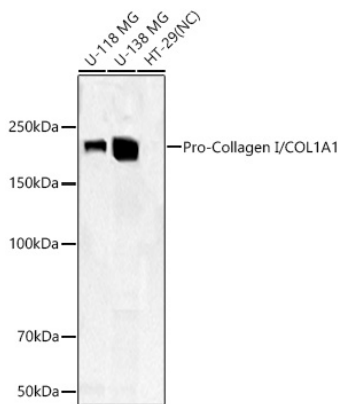
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

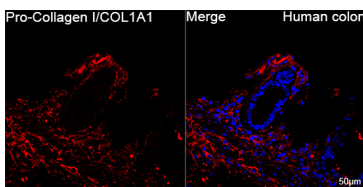
Validation Data



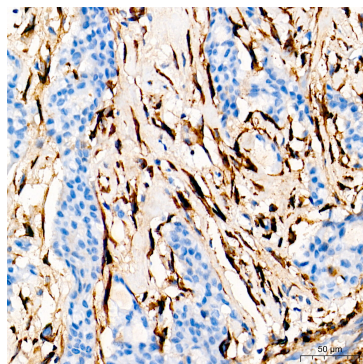
Immunoprecipitation of Pro-Collagen I/COL1A1 from 300 µg extracts of U-138MG cells was performed using 0.5 µg of Pro-Collagen I/COL1A1 Rabbit mAb (A26946). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at a dilution of 1:13000.



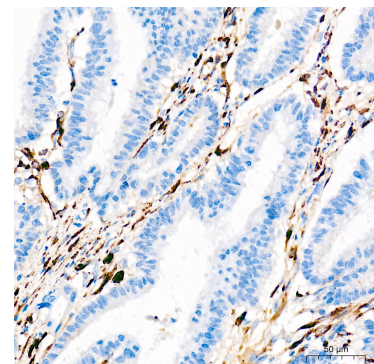
Western blot analysis of various lysates using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at 1:13000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): HT-29. Exposure time: 10s.



Confocal imaging of paraffin-embedded Human colon tissue using Pro-Collagen I/COL1A1 Rabbit mAb (A26946, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

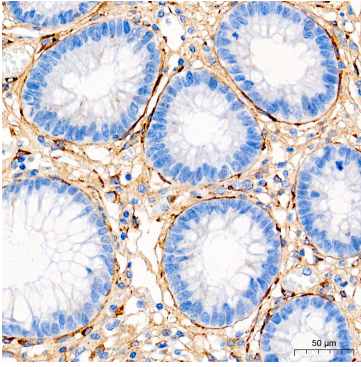


Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

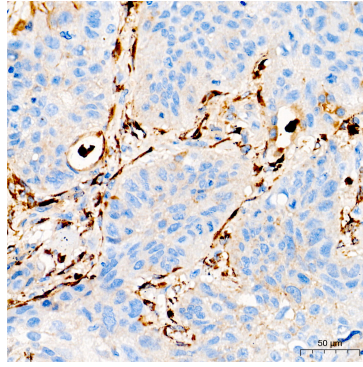


Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Pro-Collagen I/COL1A1 Rabbit mAb (A26946) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.