Collagen I/COL1A1 Rabbit mAb

Catalog No.: A22090 Recombinant 12 Publications



Basic Information

Observed MW

220kDa

Calculated MW

139kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC53610

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.

Recommended Dilutions

WB 1:1000 - 1:5000

IHC-P 1:500 - 1:2000

IF/ICC 1:200 - 1:800

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

 Gene ID
 Swiss Prot

 1277
 P02452

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

OI1; OI2; OI3; OI4; EDSC; CAFYD; EDSARTH1; Collagen I/COL1A1

Contact

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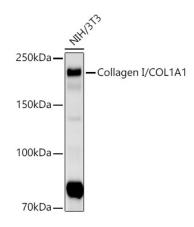
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of lysates from NIH/3T3 cells, using Collagen I/COL1A1 Rabbit mAb (A22090) at1:2000 dilution

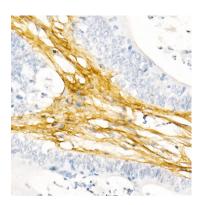
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

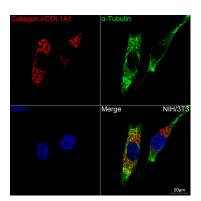
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

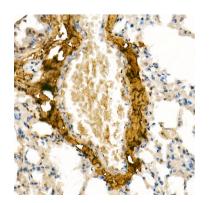
Exposure time: 180s.



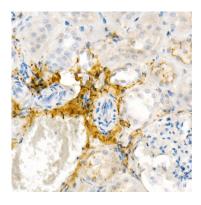
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma using Collagen I/COL1A1 Rabbit mAb (A22090) at dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of NIH-3T3 cells using Collagen I/COL1A1 Rabbit mAb (A22090,dilution 1:200)(Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



Immunohistochemistry analysis of paraffinembedded Mouse lung using Collagen I/COL1A1 Rabbit mAb (A22090) at dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat kidney using Collagen I/COL1A1 Rabbit mAb (A22090) at dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.