Collagen I/COL1A2 Rabbit mAb

Catalog NO.: A22349 Recombinant 1 Publications

Basic Information

Observed MW
165kDa

Calculated MW
129kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, ELISA

Cross-Reactivity
Human, Mouse

Conjugation
Unconjugated

Clone number
ARC52125

Background

This gene encodes the pro-alpha2 chain 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

Recommended Dilutions

WB	1:1000 - 1:6000
IF/ICC	1:100 - 1:800

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

Immunogen Information

Gene ID
1278

Swiss Prot
P08123

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

Synonyms
OI4; EDSCV; EDSARTH2; Collagen I/COL1A2

Contact

Product Information

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www.abclonal.com

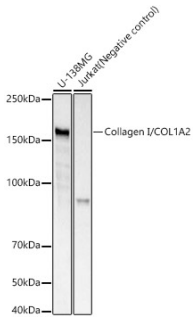
Source
Rabbit

Isotype
IgG

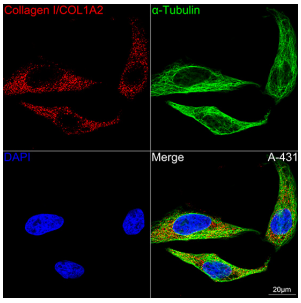
Purification
Affinity purification

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.

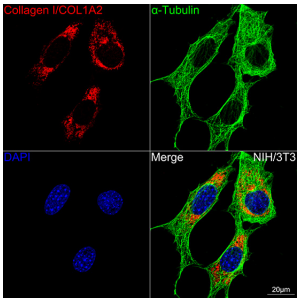
Validation Data



Western blot analysis of various lysates, using Collagen I/COL1A2 Rabbit mAb (A22349) at 1:1000 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: 3s.



Confocal imaging of A-431 cells using Collagen I/COL1A2 Rabbit mAb (A22349,dilution 1:100)(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells using Collagen I/COL1A2 Rabbit mAb (A22349,dilution 1:100)(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.

For research use only. Not for therapeutic or diagnostic purposes.

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