

COL2A1 Rabbit pAb

Catalog No.: A1560SP **47 Publications**

Basic Information

Observed MW

36 kDa/200 kDa

Calculated MW

132-142 kDa/30 kDa

Category

Primary antibody

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene.

Recommended Dilutions

WB 1:1000 - 1:5000**IHC-P** 1:1000 - 1:4000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)

Immunogen Information

Gene ID
1280/12824**Swiss Prot**
P02458/P28481**Immunogen**

This information is considered to be commercially sensitive.

Synonyms

AOM; ANFH; SEDC; STL1; COL11A3; COL2A1

Contact

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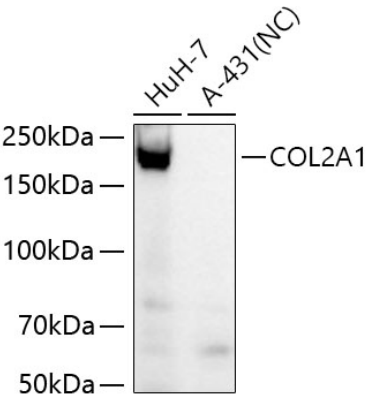
Product Information

Source
Rabbit**Isotype**
IgG**Purification**
Affinity purification**Storage**

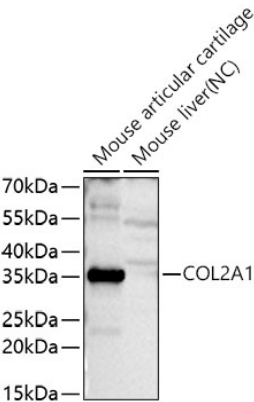
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

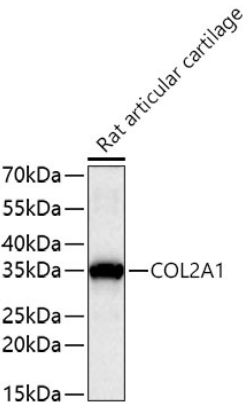
Validation Data



Western blot analysis of various lysates using COL2A1 Rabbit pAb (A1560SP) at 1:5000 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): A-431.
Exposure time: 90 s.

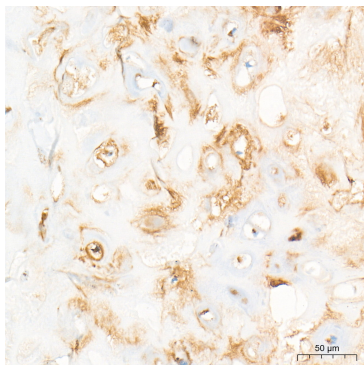


Western blot analysis of various lysates using COL2A1 Rabbit pAb (A1560SP) at 1:3000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Mouse liver.
Exposure time: 20 s.



Western blot analysis of lysates from Rat articular cartilage using COL2A1 Rabbit pAb (A1560SP) at 1:3000 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).
Exposure time: 10 s.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human cartilage tissue using COL2A1 Rabbit pAb (A1560SP) at a dilution of 1:1500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.