

# COL2A1 Rabbit pAb

Catalog No.: A19308 **4 Publications**

## Basic Information

**Observed MW**

141kDa

**Calculated MW**

142kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC

**Cross-Reactivity**

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** 1:100 - 1:500**IF/ICC** 1:50 - 1:200

## Immunogen Information

**Gene ID**

1280

**Swiss Prot**

P02458

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 1200-1300 of human COL2A1 (NP\_001835.3).

**Synonyms**

AOM; ANFH; SEDC; STL1; COL11A3; COL2A1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

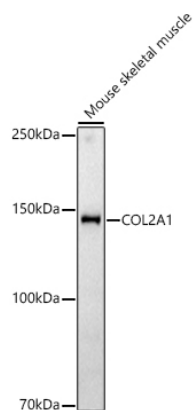
**Storage**

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

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of lysates from Mouse skeletal muscle, using COL2A1 Rabbit pAb (A19308) at 1:400 dilution.

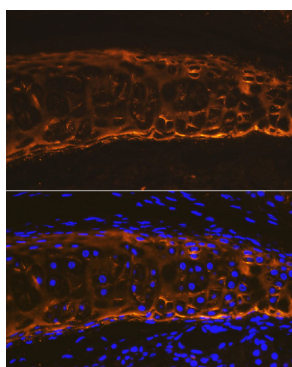
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



Immunofluorescence analysis of paraffin-embedded rat trachea using COL2A1 Rabbit pAb (A19308) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.