

COL2A1 Rabbit pAb

Catalog No.: A19308

8 Publications

Basic Information

Observed MW

141kDa

Calculated MW

142kDa

Category

Primary antibody

Applications

WB, IF-P, ELISA

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-P** 1:50 - 1:200

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

Immunogen Information

Gene ID

1280

Swiss Prot

P02458

Immunogen

Synthetic peptide. 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

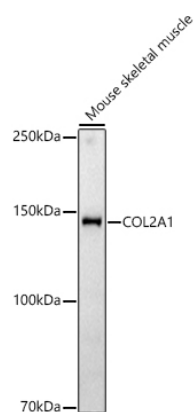
Affinity purification

Storage

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

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

Validation Data



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

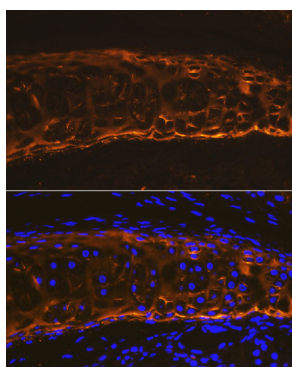
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



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