

COL2A1 Rabbit mAb

Catalog No.: A29452 **Recombinant**

Basic Information

Observed MW

36 kDa/200 kDa

Calculated MW

30 kDa/134 kDa/142 kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC84233

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 1:2000 - 1:15000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

1280

Swiss Prot

P02458

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

AOM; ACG2; ANFH; LCPD; SEDC; STL1; VPED; ANFH1; EDMMD; OSCDP; PLSDT; SEDSTN; SMDALG; COL11A3; SEMDSTWK

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

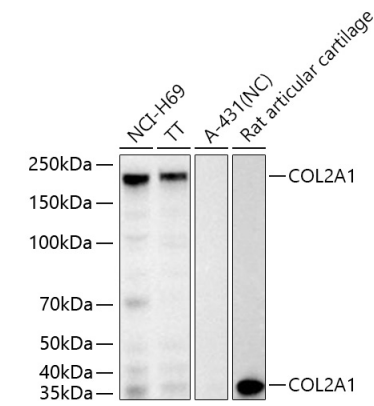
Affinity purification

Storage

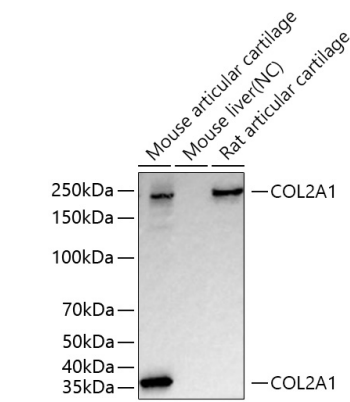
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using COL2A1 Rabbit mAb (A29452) 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: 1 s.



Western blot analysis of various lysates using COL2A1 Rabbit mAb (A29452) 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): Mouse liver. Exposure time: 30 s.