# **COL2A1 Rabbit pAb**

Catalog No.: A28341



## **Basic Information**

#### **Observed MW**

36 kDa

#### **Calculated MW**

132-142 kDa

## Category

Primary antibody

### **Applications**

WB, ELISA

#### **Cross-Reactivity**

Mouse, Rat

# **Background**

This gene encodes the alpha-1 subunit of the fibril-forming type II collagen, the major component of cartilage and the vitreous humor of the eye. The encoded preproprotein forms homotrimeric, triple helical procollagen that undergoes proteolytic processing during fibirl formation. Mice harboring certain mutations in this gene exhibit severe chondrodysplasia characterized by short limbs and trunch, craniofacial deformities and cleft palate. A complete lack of the encoded protein in mice results in postnatal lethality. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing.

## **Recommended Dilutions**

**WB** 1:1000 - 1:3000

**ELISA** 

Recommended starting concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements. For highratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement accuracy.

# Immunogen Information

**Gene ID**12824

Swiss Prot
P28481

#### **Immunogen**

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

## **Synonyms**

Dmm; Lpk; Col2; Del1; Col2a; Col2a-1; M100413; Rgsc413; Rgsc856

# Contact

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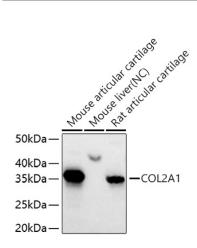
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

Store at -20  $^{\circ}\text{C}.$  Avoid freeze / thaw cycles.

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



Western blot analysis of various lysates using COL2A1 Rabbit pAb (A28341) at 1:1000 dilution incubated at room temperature for 1.5 hours.

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: 90 s.