

COL2A1 Rabbit mAb

Catalog No.: A30054

Basic Information

Observed MW

140 kDa

Calculated MW

30 kDa/134 kDa/142 kDa

Category

Monoclonal Antibodies

Applications

WB, IHC-P, ELISA

Cross Reactivity

Rat

Clone No.

ARC84239

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 1:3000 - 1:15000**IHC-P** 1:2500 - 1:10000**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), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

1280

Swiss-Prot

P02458

Immunogen

synthetic peptide. 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

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

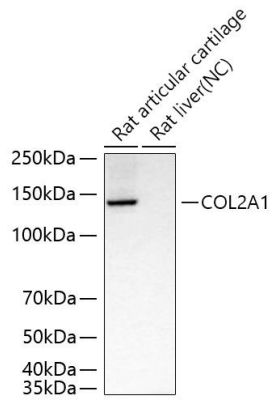
Purity

Affinity purification

Storage

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

Validation Data



Western blot analysis of various lysates using COL2A1 Rabbit mAb (A30054) at 1:5000 dilution incubated overnight at 4°C.

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

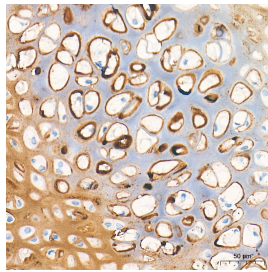
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Negative control (NC): Rat liver.

Exposure time: 1 s.



Immunohistochemistry analysis of paraffin-embedded Rat cartilage tissue using COL2A1 Rabbit mAb (A30054) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.