bs-0709R

[Primary Antibody]

Bioss

www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

Collagen II Rabbit pAb

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 1280 **SWISS:** P02458

Target: Collagen II

Immunogen: KLH conjugated synthetic peptide derived from human Collagen II:

1201-1300/1487.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

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. [provided by RefSeq, Jul

2008]

Applications: WB (1:500-2000)

IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)

Reactivity: Human, Mouse, Rabbit

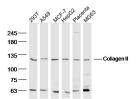
(predicted: Rat, Pig, Cow, Chicken, Dog, GuineaPig)

Predicted MW.: 117 kDa

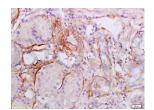
Subcellular Secreted, Extracellular

Location: matrix

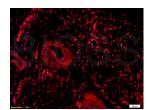
VALIDATION IMAGES



Sample: 293T (human)Cell Lysate at 40 ug A549 (human)Cell Lysate at 40 ug MCF-7 (human)Cell Lysate at 40 ug HepG2 (human)Cell Lysate at 40 ug Placenta (mouse) Lysate at 40 ug MG63 (human)Cell Lysate at 40 ug Primary: Anti-Collagen II (bs-0709R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 117 kD
Observed band size: 120 kD



Tissue/cell: human esophageal carcinoma; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Collagen II Polyclonal Antibody, Unconjugated(bs-0709R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rabbit meniscus tissue;4%
Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Collagen II
Polyclonal Antibody, Unconjugated(bs-0709R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3
conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

- SELECTED CITATIONS -

- [IF=18] Rachel H. Koh. et al. Bioceramic-mediated chondrocyte hypertrophy promotes calcified cartilage formation for rabbit osteochondral defect repair. BIOACT MATER. 2024 Oct;40:306 IF; Mouse. 38978806
- [IF=13.3] Shan Mou. et al. Biphasic ECM assembled graphene oxide-collagen/nHap composites mimicking articular microenvironment for in situ osteochondral defect repair. CHEM ENG J. 2024 Nov;499:156322 WB,IHC; Rat.

- 10.1016/j.cej.2024.156322
- [IF=10.684] Chen Zhang. et al. The novel hyaluronic acid granular hydrogel attenuates osteoarthritis progression by inhibiting the TLR-2/NF-kB signaling pathway through suppressing cellular senescence. BIOENG TRANSL MED. 2022 Dec;;e10475 IHC; Mouse. 10.1002/btm2.10475
- [IF=10.652] Xiaoguang Zhang. et al. Implanted 3D gelatin microcryogel enables low-dose cell therapy for osteoarthritis by preserving the viability and function of umbilical cord MSCs. Chem Eng J. 2021 Jul;416:129140 IHC; Mouse. 10.1016/j.cej.2021.129140
- [IF=10.317] Maolin Zhang. et al. Recapitulation of cartilage/bone formation using iPSCs via biomimetic 3D rotary culture approach for developmental engineering. Biomaterials. 2020 Nov;260:120334 IHC; Rat. 32862124