

**bs-10589R****[ Primary Antibody ]****Bioss**  
ANTIBODIES

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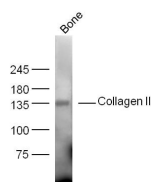
sales@bioss.com.cn

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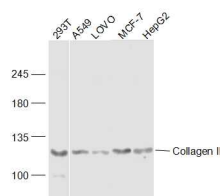
400-901-9800

**Collagen II Rabbit pAb****— DATASHEET —**

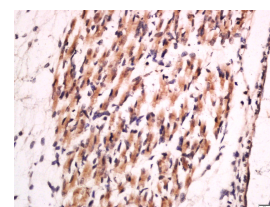
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Mouse (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)  <b>Predicted MW.:</b> 117 kDa  <b>Subcellular Location:</b> Secreted ,Extracellular matrix
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 1280	<b>SWISS:</b> P02458	
<b>Target:</b> Collagen II		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Collagen II: 231-330/1487.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> 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]		

**— VALIDATION IMAGES —**

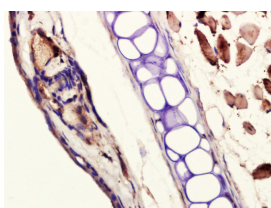
Sample: bone(Mouse) Lysate at 40 ug Primary: Anti-Collagen II(bs-10589R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 117 kD  
Observed band size: 134 kD



Sample: 293T(Human) Cell Lysate at 30 ug A549 (Human) Cell Lysate at 30 ug LOVO (Human) Cell Lysate at 40 ug MCF-7 (Human) Cell Lysate at 30 ug HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-Collagen II (bs-10589R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 117 kD  
Observed band size: 117 kD



Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; 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-10589R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse ear); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block

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endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen II) Polyclonal Antibody, Unconjugated (bs-10589R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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## — SELECTED CITATIONS —

- **[IF=15.1]** Huihui Xu. et al. Curcumin-loaded biomimetic nanosponges for osteoarthritis alleviation by synergistically suppressing inflammation and ferroptosis. CHEM ENG J. 2024 May;:152132 IHC ;Mouse. 10.1016/j.cej.2024.152132
- **[IF=10.383]** Shengbo Sang. et al. 3D Bioprinting Using Synovium-Derived MSC-Laden Photo-Cross-Linked ECM Bioink for Cartilage Regeneration. ACS APPL MATER INTER. 2023;XXXX(XXX):XXX-XXX IF ;Rat. 36779653
- **[IF=9.933]** Qi Feng. et al. Dynamic nanocomposite microgel assembly with microporosity, injectability, tissue-adhesion and sustained drug release promotes articular cartilage repair and regeneration. 2021 Dec 07 IHC ;Mouse. 34874119
- **[IF=8.724]** Yang Ling. et al. Three-dimensional (3D) hydrogel serves as a platform to identify potential markers of chondrocyte dedifferentiation by combining RNA sequencing. Bioact Mater. 2021 Sep;6:2914 IF ;Pig. 33718672
- **[IF=7.94]** Maolin Zhang. et al. Rapid and efficient generation of cartilage pellets from mouse induced pluripotent stem cells by transcriptional activation of BMP-4 with shaking culture:. J TISSUE ENG. 2022;(): IHC ;Rat. 35923173