

# Anti-Collagen II Antibody

## ER1906-49



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IHC-P, IF-Tissue
<b>Molecular Wt:</b>	117 KDa

**Description:** 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.

**Immunogen:** KLH conjugated synthetic peptide derived from human Collagen II 231-330/1487

**Positive control:** Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.

**Subcellular location:** Secreted, extracellular space, extracellular matrix.

**Database links:** SwissProt: P02458 Human

**Recommended Dilutions:**

<b>WB</b>	1:500-2000
<b>IHC-P</b>	1:100-500
<b>IF-tissue</b>	1:100-500

**Storage Buffer:** 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**Storage Instruction:** Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

**Purity:** Protein A affinity purified.

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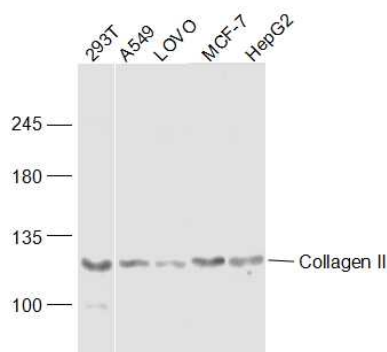
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Technical:0086-571-89986345

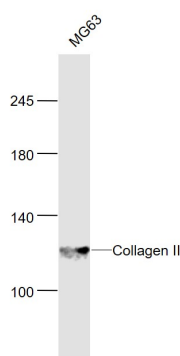
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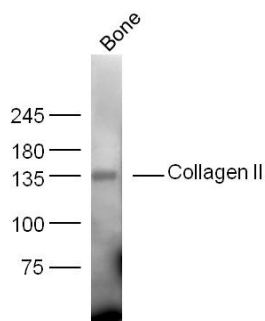
## Images

**Fig1: Sample:**

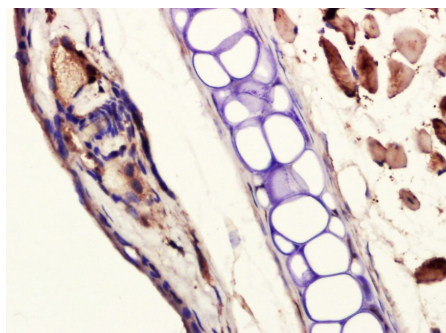
293T(Human) Cell Lysate at 30 ug  
 A549 (Human) Cell Lysate at 30 ug  
 LOVO (Human) Cell Lysate at 40 ug  
 MCF-7 (Human) Cell Lysate at 30 ug  
 HepG2 (Human) Cell Lysate at 30 ug  
 Primary: Anti-Collagen II (ER1906-49) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 117 kD  
 Observed band size: 117 kD

**Fig2: Sample:**

MG63 (Human) Cell Lysate at 30 ug  
 Primary: Anti-Collagen II (ER1906-49) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 117 kD  
 Observed band size: 117 kD

**Fig3: Sample: bone(Mouse) Lysate at 40 ug**

Primary: Anti-Collagen II(ER1906-49) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 117 kD  
 Observed band size: 134 kD



**Fig4:** Paraformaldehyde-fixed, paraffin embedded (mouse ear); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block 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 (ER1906-49) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

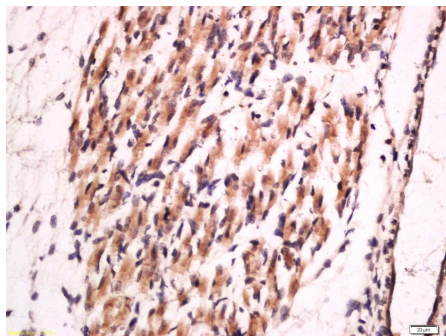
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**Fig5:** Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37 $^{\circ}$ C for 20 min;  
Incubation: Anti-Collagen II Polyclonal Antibody, Unconjugated(ER1906-49) 1:100, overnight at 4 $^{\circ}$ C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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