

## Anti-Collagen II/COL2A1 Polyclonal Antibody 2

### Product Details

|                   |   |
|-------------------|---|
| Ig Type:          | IgG   |
| Reactivity:       | Human, Mouse (predicted: Chicken, Dog, Pig, Cow, Horse, Rabbit) |
| Molecular Weight: | Theoretical: 117 kDa. Actual: 125-135 kDa.                      |
| Purification:     | Protein A purified  |

### Applications

#### 1. Sample:

293t (Human) Cell Lysate at 30 µg

A549 (Human) Cell Lysate at 30 µg

LOVO (Human) Cell Lysate at 40 µg

MCF-7 (Human) Cell Lysate at 30 µg

HepG2 (Human) Cell Lysate at 30 µg

Primary: Anti-Collagen II (TMAB-00458) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 117 kDa

Observed band size: 117 kDa

#### 2. Sample:

MG63 (Human) Cell Lysate at 30 µg

Primary: Anti-Collagen II (TMAB-00458) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 117 kDa

Observed band size: 117 kDa

#### Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (mouse ear); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Collagen II) Polyclonal Antibody, Unconjugated (TMAB-00458) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

4. Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-Collagen II Polyclonal Antibody, Unconjugated (TMAB-00458) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

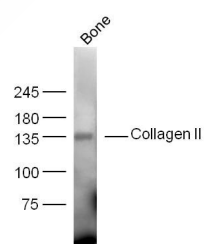
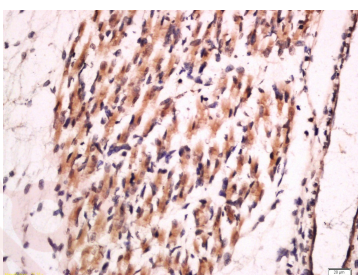
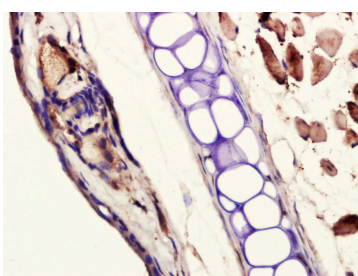
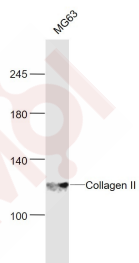
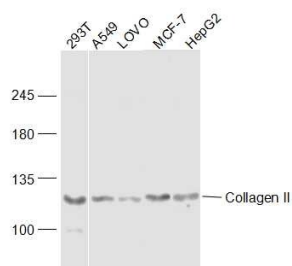
5. Sample: bone (Mouse) Lysate at 40 µg

Primary: Anti-Collagen II (TMAB-00458) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 117 kDa

Observed band size: 134 kDa



Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Collagen II  
Antigen Species: Human  
Gene ID: 1280  
Uniprot ID: P02458  
Synonyms: collagen, type II,  $\alpha$ 1;collagen, type II, alpha 1;AOM;SEDC;ANFH;STL1;COL11A3

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### Research 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]

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