bs-11929R **[Primary Antibody]**

Collagen II Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: Collagen II

Immunogen: KLH conjugated synthetic peptide derived from rabbit Collagen II Chondrocalcin: 1401-1487/1487.

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]

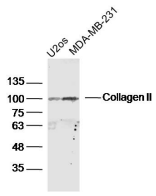
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rabbit, Chicken)

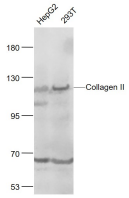
Predicted MW.: 117/163 kDa

Subcellular Location: Secreted ,Extracellular matrix

VALIDATION IMAGES



Sample: U2OS Cell (Human) Lysate at 40 ug MDA-MB-231 Cell (Human) Lysate at 40 ug Primary: Anti-Collagen II (bs-11929R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 117/163 kD Observed band size: 100 kD



Sample: HepG2(Human) Cell Lysate at 30 ug 293T(Human) Cell Lysate at 30 ug Primary: Anti-Collagen II (bs-11929R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116 kD Observed band size: 116 kD

SELECTED CITATIONS

- **[IF=8.7]** Yu Han. et al. High-precision bioactive scaffold with dECM and extracellular vesicles targeting 4E-BP inhibition for cartilage injury repair. MATER TODAY BIO. 2024 Aug;27:101114 WB ;Rat. 10.1016/j.mtbio.2024.101114
- **[IF=4.734]** Yan Sun. et al. Hsa_circ_0045714 induced by eupatilin has a potential to promote fracture healing. Biofactors. 2021 Jan 25 WB ;Mouse. 33496034
- **[IF=3.743]** Shi X et al. Electroacupuncture alleviates cartilage degradation: Improvement in cartilage biomechanics via pain relief and potentiation of muscle function in a rabbit model of knee osteoarthritis. Biomed Pharmacother. 2020 Mar;123:109724. IHC ;Rabbit. 31918209
- **[IF=3.7]** Rongjie Wu. et al. Young human plasma-derived extracellular vesicles rescue and reactivate IL-1β and TNF-α treated chondrocytes. EXP CELL RES. 2024 Apr;437:114009 WB ;Human. 38537745

- **[IF=2.784]** Yang et al. miR-1307-3p suppresses the chondrogenic differentiation of human adipose-derived stem cells by targeting BMPR2. (2018) Int.J.Mol.Med. 42:3115-3124 WB ;. 30272255