

Anti-Collagen II/COL2A1 Antibody Picoband®

Catalog Number: PA2141

About COL2A1

Collagen, type II, alpha 1, also known as COL2A1, is a human gene which is the major collagen synthesized by chondrocytes. COL2A1 is mapped to 12q13.11. 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.

Overview

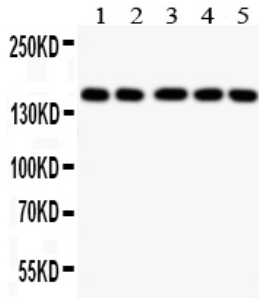
Product Name	Anti-Collagen II/COL2A1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Collagen II/COL2A1 Antibody catalog # PA2141. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P02458

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen II, different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-Collagen II/COL2A1 Antibody Picoband® (PA2141) Images



Anti-COL2A1 antibody, PA2141, Western blotting
All lanes:
Anti COL2A1 (PA2141) at 0.5ug/ml
Lane 1: COLO320 Whole Cell Lysate at 40ug
Lane 2: HELA Whole Cell Lysate at 40ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Lane 4: A549 Whole Cell Lysate at 40ug
Lane 5: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 134 KD
Observed bind size: 170KD

31 Publications Citing This Product

1. PubMed ID: 27446265, Use of a biological reactor and platelet-rich plasma for the construction of tissue-engineered bone to repair articular cartilage defects
2. PubMed ID: 25765089, Liu Q, Lu Z, Wu H, Zheng L. Tohoku J Exp Med. 2015;235(3):201-13. Doi: 10.1620/Tjem.235.201. Chondroprotective Effects Of Taurine In Primary Cultures Of Human Articular Chondrocytes.
3. PubMed ID: 25124868, Liu L, Liu Q, Lin X, Wei Qj, Zheng L. In Vitro Cell Dev Biol Anim. 2014 Dec;50(10):982-91. Doi: 10.1007/S11626-014-9795-5. Epub 2014 Aug 15. Effect Of Jeztc, A Synthetic Compound, On Proliferation And Phenotype Maintenance Of Rabbit Articular Chon...

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