Datasheet for ABIN3042879

anti-COL2A1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	COL2A1
Binding Specificity:	AA 1222-1241, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL2A1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Collagen alpha-1(II) chain(COL2A1) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen II(1222-1241aa AFAGLGPREKGPDPLQYMRA), different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Sequence:	AFAGLGPREK GPDPLQYMRA
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse, rat No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

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Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Collagen alpha-1(II) chain(COL2A1) detection. Tested with WB in Human,Mouse,Rat. Gene Name: collagen, type II, alpha 1 Protein Name: Collagen alpha-1(II) chain
Purification:	Immunogen affinity purified.

Target Details

Target:	COL2A1
Alternative Name:	COL2A1 (COL2A1 Products)
Background:	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. Synonyms: Alpha 1 type II collagen antibody|Alpha-1 type II collagen antibody|AOM antibody|Cartilage collagen antibody|Chondrocalcin antibody|CO2A1_HUMAN antibody|COL11A3 antibody|COL2A1 antibody|COL2A1 protein antibody|Collagen alpha 1(II) chain precursor antibody|Collagen II alpha 1 polypeptide antibody|Collagen type II alpha 1(primary osteoarthritis spondyloepiphyseal dysplasia congenital) antibody|MGC131516 antibody|SEDC antibody
UniProt:	P02458
Pathways:	Sensory Perception of Sound, Growth Factor Binding

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only

Handling

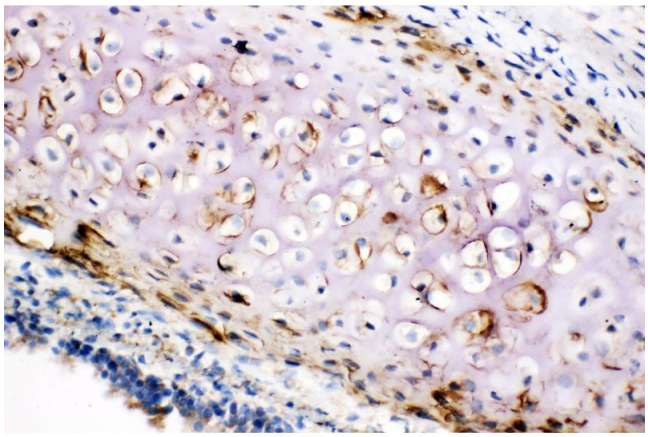
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:	You, Zhang, Li, Li, Li, Li, Zhu, Peng, Sun: "Cloning and molecular characterization of phospholipase D (PLD) delta gene from longan (Dimocarpus longan Lour.)." in: **Molecular biology reports**, Vol. 41, Issue 7, pp. 4351-60, (2014) (PubMed). There are more publications referencing this product on: Product page

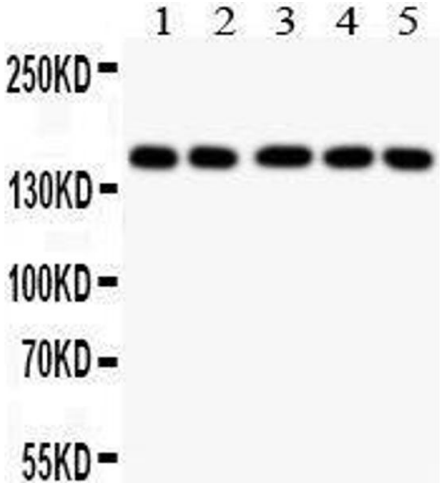
Western Blotting

Image 1. Anti-Collagen II antibody, Western blotting Lane 1: Rat Heart Tissue Lysate Lane 1: Rat Brain Tissue Lysate



Immunohistochemistry

Image 2. Anti-Collagen II antibody, IHC(F) IHC(F): Rat Trachea Tissue



Western Blotting

Image 3. Anti- COL2A1 antibody, Western blotting All lanes: Anti COL2A1 at 0.5ug/ml Lane 1: COLO320 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: MCF-7Whole 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