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### anti-COL2A1 antibody (C-Term)

2 Images

35

**Publications** 



Go to Product page

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Quantity:	100 μg	
Target:	COL2A1	
Binding Specificity:	AA 1222-1241, C-Term	
Reactivity:	Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This COL2A1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Collagen alpha-1(II) chain(COL2A1) detection. Tested with WB, IHC-F in Mouse,Rat.	
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen II1222-1241aa AFAGLGQREKGPDPMQYMRA), different from the related rat sequence by one amino acid.	
Sequence:	AFAGLGQREK GPDPMQYMRA	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross reactivity with other proteins.	
Characteristics:	Rabbit IgG polyclonal antibody for Collagen alpha-1(II) chain(COL2A1) detection. Tested with WB, IHC-F in Mouse,Rat.  Gene Name: collagen, type II, alpha 1	

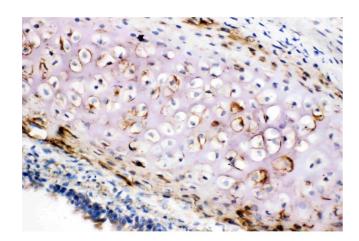
## **Product Details** Protein Name: Collagen alpha-1(II) chain Purification: Immunogen affinity purified. Target Details Target: COI 2A1 Alternative Name: COL2A1 (COL2A1 Products) Background: Collagen, type II, alpha 1, also known as COL2A1, is a human gene which is the major collagen synthesized by chondrocvtes. 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: P28481 Sensory Perception of Sound, Growth Factor Binding Pathways: **Application Details**

Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Rat, Predicted Species: Mouse, The
	detection limit for COL2A1 is approximately 1 ng/lane under reducing conditions.
	IHC-F: Concentration: 0.5-1 μg/mL, Tested Species: Rat, Predicted Species: Mouse
	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, supported by ABIN921231 in IHC(F).

#### **Application Details**

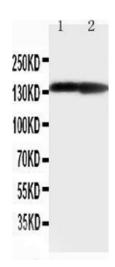
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.	
Preservative:	Sodium azide, Thimerosal (Merthiolate)	
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND	
	HAZARDOUS SUBSTANCES which should be handled by trained staff only.	
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.	
Publications		
Product cited in:	Leira, Iglesias-Rey, Gómez-Lado, Aguiar, Campos, DAiuto, Castillo, Blanco, Sobrino: "	
	Porphyromonas gingivalis lipopolysaccharide-induced periodontitis and serum amyloid-beta	
	peptides." in: Archives of oral biology, Vol. 99, pp. 120-125, (2019) (PubMed).	

There are more publications referencing this product on: Product page



#### **Immunohistochemistry**

Image 1. Anti-Collagen II antibody, IHC(F): Rat Trachea Tissue



#### **Western Blotting**

Image 2. Anti-Collagen II antibody, Western blotting Lane 1: Rat Heart Tissue Lysate Lane 1: Rat Brain Tissue Lysate