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Datasheet for ABIN672171

anti-COL2 antibody (AA 1201-1300)

5 Images

15 Publications

Overview

Quantity:	100 µL
Target:	COL2
Binding Specificity:	AA 1201-1300
Reactivity:	Human, Mouse, Rat, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Collagen II
Isotype:	IgG
Cross-Reactivity:	Guinea Pig, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	COL2
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Target Details

Alternative Name: Collagen 2 ([COL2 Products](#))

Background: Synonyms: AOM, ANFH, SEDC, STL1, COL11A3, Collagen alpha-1(II) chain, Alpha-1 type II collagen, COL2A1
Background: Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.

Molecular Weight: 156kDa

Gene ID: 1280

UniProt: [P02458](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

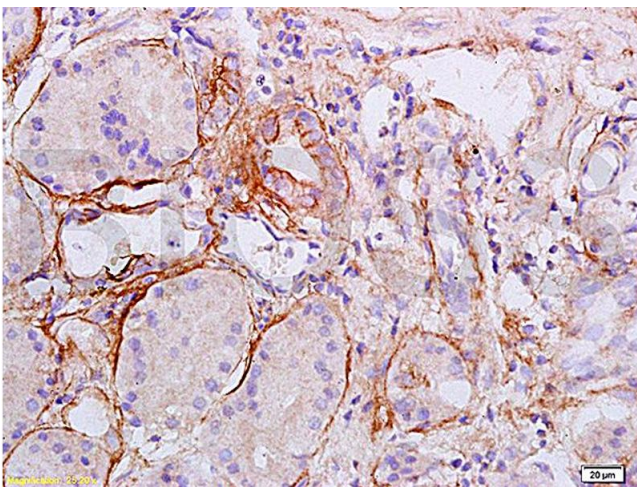
Expiry Date: 12 months

Publications

- Product cited in: Chen, Kuo, Wang, Chen: "Dual Function of Glucosamine in Gelatin/Hyaluronic Acid Cryogel to Modulate Scaffold Mechanical Properties and to Maintain Chondrogenic Phenotype for Cartilage Tissue Engineering." in: **International journal of molecular sciences**, Vol. 17, Issue 11, (2017) ([PubMed](#)).
- Liu, Yu, Ma, Xiang, Hu, Chen: "Lentivirus-mediated TGF- β 3, CTGF and TIMP1 gene transduction as a gene therapy for intervertebral disc degeneration in an in vivo rabbit model." in: **Experimental and therapeutic medicine**, Vol. 11, Issue 4, pp. 1399-1404, (2016) ([PubMed](#)).
- Fu, Liao, Lin, Sun, Tian, Zhu, Lin: "PCL-PEG-PCL film promotes cartilage regeneration in vivo." in: **Cell proliferation**, Vol. 49, Issue 6, pp. 729-739, (2016) ([PubMed](#)).
- Wang, Yang, Lin, Liu, Yang, Kuo, Chen: "Expandable Scaffold Improves Integration of Tissue-Engineered Cartilage: An In Vivo Study in a Rabbit Model." in: **Tissue engineering. Part A**, Vol. 22, Issue 11-12, pp. 873-84, (2016) ([PubMed](#)).
- Li, Niu, Wu, Du, Huang, Yin, Liu, Song, Leng: "Vitamin D prevents articular cartilage erosion by regulating collagen II turnover through TGF- β 1 in ovariectomized rats." in: **Osteoarthritis and cartilage**, Vol. 24, Issue 2, pp. 345-53, (2016) ([PubMed](#)).

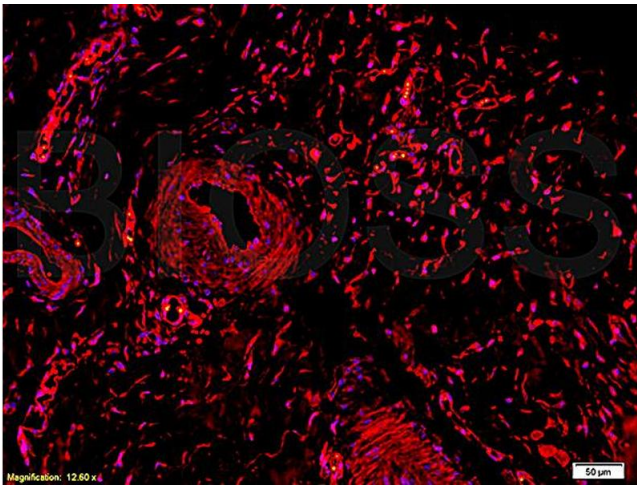
There are more publications referencing this product on: [Product page](#)

Images



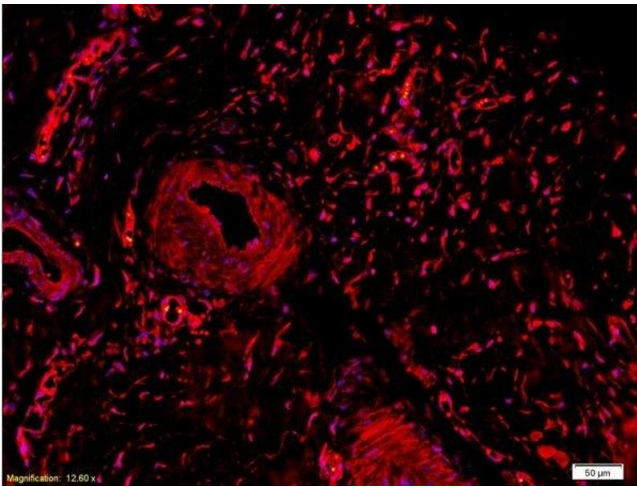
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human esophageal carcinoma labeled Anti-Collagen II Polyclonal Antibody, Unconjugated (ABIN672171) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 2. Formalin-fixed and paraffin embedded rabbit meniscus tissue labeled Anti-Collagen II Polyclonal Antibody, Unconjugated (ABIN672171) at 1:200, followed by conjugation to the secondary Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. and DAPI



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rabbit meniscus tissue labeled Anti-Collagen II Polyclonal Antibody, Unconjugated at 1:200, followed by conjugation to the secondary Goat Anti-Rabbit IgG, Cy3 conjugated - (Cy3)used at 1:200 dilution for 40 minutes at 37°C. and DAPI

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN672171.