



[Go to Product page](#)

Datasheet for ABIN673599

## anti-Aggrecan antibody (AA 101-220)

2 Images

6 Publications

### Overview

Quantity:	100 µL
Target:	Aggrecan (ACAN)
Binding Specificity:	AA 101-220
Reactivity:	Human, Rat, Mouse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aggrecan antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

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

### Target Details

Target:	Aggrecan (ACAN)
---------	-----------------

## Target Details

---

Alternative Name:	Aggrecan core protein 1 ( <a href="#">ACAN Products</a> )
Background:	<p>Synonyms: AGC1, SEDK, AGCAN, CSPG1, MSK16, CSPGCP, Aggrecan core protein, Cartilage-specific proteoglycan core protein, CSPCP, Chondroitin sulfate proteoglycan core protein 1, Chondroitin sulfate proteoglycan 1, ACAN</p> <p>Background: This proteoglycan is a major component of extracellular matrix of cartilagenous tissues. A major function of this protein is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region.</p>
Gene ID:	176
UniProt:	<a href="#">P16112</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Dicarboxylic Acid Transport</a>

## Application Details

---

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 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:

Hu, Yang, Chen, Sun, Lin, Yang: "Optimization of puncture injury to rat caudal disc for mimicking early degeneration of intervertebral disc." in: **Journal of orthopaedic research : official publication of the Orthopaedic Research Society**, (2017) ([PubMed](#)).

Zhao, Hao, Wang, Wang: "Effect of Choline on the Composition and Degradation Enzyme of Extracellular Matrix of Mice Chondrocytes Exposed to Fluoride." in: **Biological trace element research**, (2016) ([PubMed](#)).

Liu, Yu, Ma, Xiang, Hu, Chen: "Lentivirus-mediated TGF- $\beta$ 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](#)).

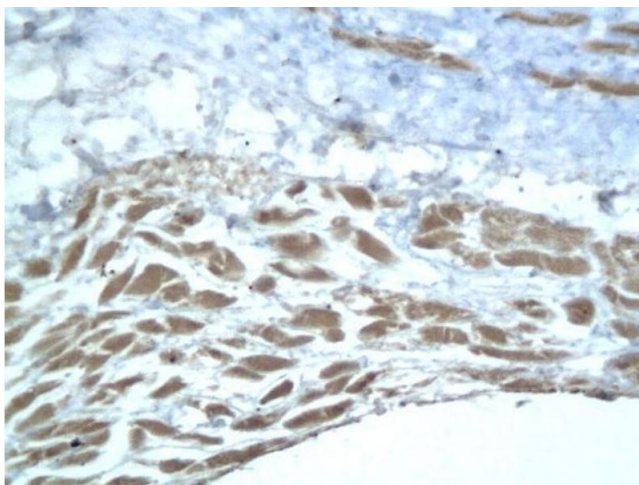
Shi, Ma, Zhang, Li, Jiang, Qin: "Hypoxia combined with spheroid culture improves cartilage specific function in chondrocytes." in: **Integrative biology : quantitative biosciences from nano to macro**, (2015) ([PubMed](#)).

Lei, Li, Li, Gao, Chen, Jin: "Mesenchymal stem cell characteristics of dental pulp and periodontal ligament stem cells after in vivo transplantation." in: **Biomaterials**, Vol. 35, Issue 24, pp. 6332-43, (2014) ([PubMed](#)).

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

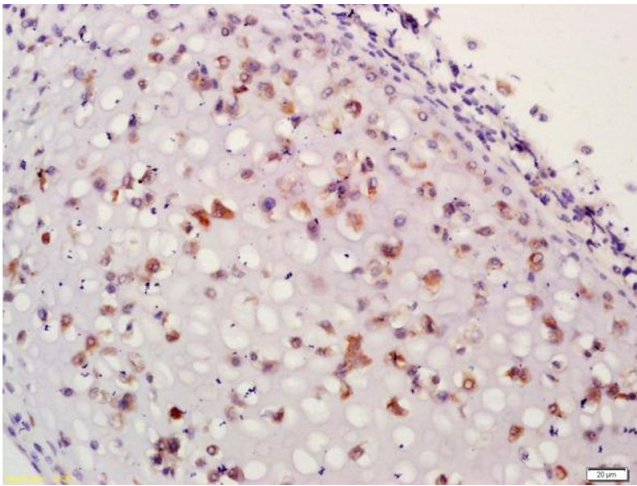
## Images

---



### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat synovial tissue labeled with Anti-Aggrecan1 Polyclonal Antibody, Unconjugated (ABIN673599) followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded mouse embryo labeled with Anti-Aggrecan1 Polyclonal Antibody, Unconjugated (ABIN673599) at 1:200 followed by conjugation to the secondary antibody and DAB staining