

For Research Use Only

# Aggrecan Recombinant monoclonal antibody

Catalog Number: 84819-5-RR



## Basic Information

<b>Catalog Number:</b> 84819-5-RR	<b>GenBank Accession Number:</b> NM_013227.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 176	<b>CloneNo.:</b> 250777C8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16112-1	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> aggrecan	
<b>Immunogen Catalog Number:</b> EG2994	<b>Calculated MW:</b> 261 kDa	
	<b>Observed MW:</b> 140-150 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB :** mouse cartilage tissue, rat auricular cartilage  
tissue

**IHC :** human lung cancer tissue, mouse lung tissue

## Background Information

Aggrecan (ACAN), also named as CSPCP, AGC1 and MSK16, belongs to the aggrecan/versican proteoglycan family (also including versican, brevican and neurocan). It is a major component of extracellular matrix of cartilaginous tissues. A major function of aggrecan is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

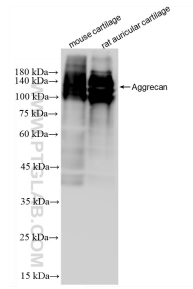
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

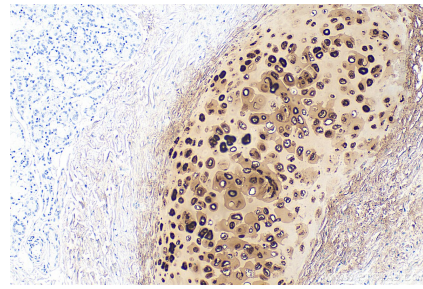
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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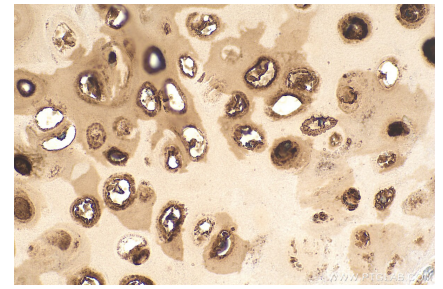
## Selected Validation Data



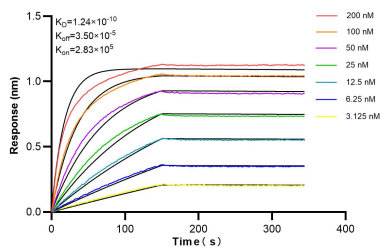
Various lysates were subjected to SDS PAGE followed by western blot with 84819-5-RR (Aggrecan antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 84819-5-RR (Aggrecan antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 84819-5-RR (Aggrecan antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84819-5-RR against Human Aggrecan were performed. The affinity constant is 0.124 nM.