



## Rabbit anti Aggrecan/AGC1 Polyclonal Antibody

Alternative Name(s): Aggrecan

### Order Information

- **Description:** Aggrecan/AGC1
- **Catalogue:** 600-670
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to the 380-400 aa of human ACAN protein. This sequence is identical to bovine, mouse and rat.

### **BACKGROUND**

Aggrecan or aggregating chondroitin sulfate proteoglycan, is an integral part of the extracellular matrix in cartilagenous tissue. Many individual monomers of aggrecan bind to hyaluronic acid to form an aggregate, the monomer is known as aggrecan. The aggregates are comprised of up to 100 monomers attached to a single chain of hyaluronic acid. The high content of negatively charged polysaccharide chains contributes to the osmotic swelling of cartilage and in combination with intact collagen fibers results in articular cartilage resistance to compressive forces and high tensile strength. Aggrecan is abundant in articular cartilage and comprises 10% of its dry weight. The cleavage of Aggrecan has been associated with a number of degenerative diseases including rheumatoid arthritis and osteoarthritis. Mutations in this gene may be involved in skeletal dysplasia and spinal degeneration.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~250 kDa of human Aggrecan protein. It reacts with mouse. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 300.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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**DATA ATTACHMENTS**

**MW  
(kDa)**

**200-**

**97-**

**75-**

**50-**



Western Blot: The tissue lysate derived from mouse embryonic tissue was resolved onto 7.5% SDS-PAGE, transferred onto NC membrane, and immunoprobed by Rabbit anti Aggrecan (Cat#600-670) at 1:500. multiple immunoreactive bands ~above 100 kDa was observed.

**REFERENCES**

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