

Datasheet for ABIN1450192
anti-Aggrecan antibody



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1 Publication

Overview

Quantity:	0.2 mg
Target:	Aggrecan (ACAN)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Purified Human articular cartilage Aggrecan. Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Clone:	HAG7D4 (7D4)
Isotype:	IgG1
Cross-Reactivity (Details):	Species reactivity (tested): Human and Bovine.
Purification:	Prepared by Affinity Chromatography on Protein G from Tissue Culture Supernatant

Target Details

Target:	Aggrecan (ACAN)
Alternative Name:	Aggrecan (ACAN Products)
Background:	Aggrecan is a member of a family of large, aggregating proteoglycans (also including versican,

Target Details

brevican and neurocan) which is found in articular cartilage. Aggrecan is composed of three major domains: G1, G2, and G3. Between the G1 and G2 domains there is an interglobulin region (IGD). The IGD region is the major site of cleavage by specific proteases like metalloproteinases (MMPs) and aggrecanase. Aggrecan cleavage has been associated with a number of degenerative diseases including rheumatoid arthritis and osteoarthritis. There is evidence that this family of proteoglycans modulates cell adhesion, migration, and axonal outgrowth in the CNS. Synonyms: ACAN, AGC1, CSPG1, Cartilage-specific proteoglycan core protein, Chondroitin sulfate proteoglycan core protein 1, MSK16

Gene ID: 176, 9606

UniProt: [P16112](#)

Pathways: [Glycosaminoglycan Metabolic Process](#), [Dicarboxylic Acid Transport](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: PBS, 0.09 % Sodium Azide

Preservative: Sodium azide

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

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the lyophilized product at 2-8 °C. Following reconstitution store (in aliquots) at -20 °C.

Publications

Product cited in: Anders, Mollenhauer, Beberhold, Kinne, Venbrocks: "Gelatin-based haemostyptic Spongostan as a possible three-dimensional scaffold for a chondrocyte matrix?: an experimental study with bovine chondrocytes." in: **The Journal of bone and joint surgery. British volume**, Vol. 91, Issue 3, pp. 409-16, (2009) ([PubMed](#)).

