

Rabbit Aggrecan Polyclonal Antibody | anti-ACAN antibody

Aggrecan Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327223	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

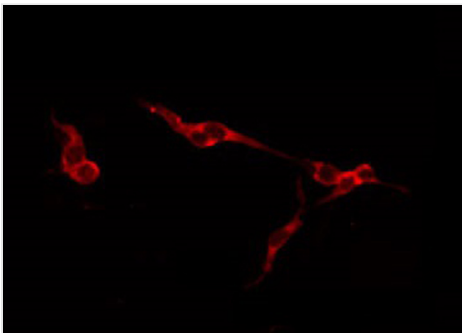
PRODUCT SYNONYMS

Aggrecan; Polyclonal Antibody; Aggrecan Antibody; ACAN; AGC 1; AGC1; AGCAN; Aggrecan 1 (chondroitin sulfate proteoglycan 1; large aggregating proteoglycan; antigen identified by monoclonal antibody A0122); Aggrecan 1; Aggrecan core protein; Aggrecan proteoglycan; Aggrecan structural proteoglycan of cartilage; Aggrecan1; ATEGQV; Cartilage specific proteoglycan core protein; Chondroitin sulfate proteoglycan 1; Chondroitin sulfate proteoglycan 1 large aggregating proteoglycan antigen identified by monoclonal antibody A0122; Chondroitin sulfate proteoglycan core protein 1; CSPG 1; CSPG1; CSPGCP; JSCATE; Large aggregating proteoglycan; mcspg; mgsk16; MSK 16; MSK16; SEDK; anti-ACAN antibody

PRODUCT SPECIFICATIONS

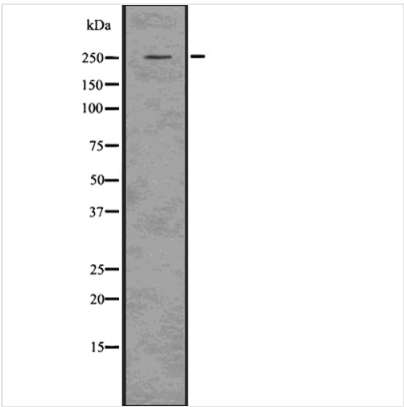
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Aggrecan antibody detects endogenous levels of total Aggrecan
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2431
Applicable Applications for anti-ACAN antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Aggrecan
Subcellular Location	Secreted; Extracellular Matrix.
Tissue Specificity	Restricted to cartilages.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327223 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Aggrecan using 293 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-ACAN antibody	Function: 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. Subunit Structure: Interacts with FBLN1 (By similarity). Interacts with COMP. Post-translational Modifications: Contains mostly chondroitin sulfate, but also keratan sulfate chains, N-linked and O-linked oligosaccharides. The release of aggrecan fragments from articular cartilage into the synovial fluid at all stages of human osteoarthritis is the result of cleavage by aggrecanase. Similarity: Two globular domains, G1 and G2, comprise the N-terminus of the proteoglycan, while another globular region, G3, makes up the C-terminus. G1 contains Link domains and thus consists of three disulfide-bonded loop structures designated as the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS) and the chondroitin sulfate (CS) attachment domains lie between G2 and G3. Belongs to the aggrecan/versican proteoglycan family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256017259
NCBI GeneID	176
NCBI Accession #	NP_001126.3
NCBI GenBank Nucleotide #	NM_001135.3
UniProt Accession #	P16112; Q13650; Q9UCD3; Q9UCP4; Q9UCP5; Q9UDE0; B9EK55; E7ENV9; E7EX88; H0YM81
Molecular Weight	Observed: 250 kDa Predicted: 262 kDa
NCBI Official Full Name	aggrecan core protein isoform 1
NCBI Official Synonym Full Names	aggrecan
NCBI Official Symbol	ACAN
NCBI Official Synonym Symbols	AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP; SSOAOD
NCBI Protein Information	aggrecan core protein
UniProt Protein Name	Aggrecan core protein
UniProt Gene Name	ACAN
UniProt Synonym Gene Names	AGC1; CSPG1; MSK16; CSPCP; Chondroitin sulfate proteoglycan 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aggrean-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327223>