



Rabbit Anti-ACAN antibody

SL11655R

Product Name:	ACAN
Chinese Name:	短蛋白聚糖抗体
Alias:	Aggrecan; Aggrecan core protein; Cartilage-specific proteoglycan core protein; CSPCP; Chondroitin sulfate proteoglycan core protein 1; Chondroitin sulfate proteoglycan 1; Aggrecan core protein 2; AGC1; CSPG1; MSK16; PGCA_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	99kDa
Cellular localization:	The cell membraneExtracellular matrixSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ACAN:601-700/2415
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene is a member of the aggrecan/versican proteoglycan family. The encoded protein is an integral part of the extracellular matrix in cartilagenous tissue and it withstands compression in cartilage. Mutations in this gene may be involved in skeletal dysplasia and spinal degeneration. Multiple alternatively spliced transcript variants that encode different protein isoforms have been observed in this gene. [provided by RefSeq,

Jul 2008]

Function:

Brevican is the most abundant chondroitin sulfate proteoglycan in the extracellular matrix of the adult brain. It is a member of the lectican family of aggregating extracellular matrix proteoglycans that bear chondroitin sulfate (CS) chains. It is highly expressed in the central nervous system and is thought to stabilize synapses and inhibit neural plasticity. Brevican is secreted from astrocytes and neurons as a 145 kD core protein that bears up to three, covalently-linked, CS chains. It is also secreted as a 145 kD core protein without CS chains. When cleaved by extracellular glutamyl endopeptidases, the ADAMTSs, a 55 kD N-terminal fragment is formed that contains the unique C-terminal epitope EAMESE.

Subunit:

Interacts with TNR

Subcellular Location:

Isoform 1 is secreted, extracellular space, extracellular matrix; Isoform 2 is found on the membrane; Lipid-anchor, GPI-anchor.

Post-translational modifications:

Contains mostly chondroitin sulfate. O-glycosylated with a core 1 or possibly core 8 glycan.

Similarity:

Belongs to the aggrecan/versican proteoglycan family.
Contains 1 C-type lectin domain.
Contains 1 EGF-like domain.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Contains 2 Link domains.
Contains 1 Sushi (CCP/SCR) domain.

SWISS:

P16112

Gene ID:

176

Database links:

[Entrez Gene: 176](#) Human

[Entrez Gene: 11595](#) Mouse

[Entrez Gene: 58968](#) Rat

[Entrez Gene: 403828](#) Dog

[Omim: 155760](#) Human

[SwissProt: Q28343](#) Dog

[SwissProt: P16112](#) Human

[SwissProt: Q61282](#) Mouse

[SwissProt: P07897](#) Rat

[Unigene: 2159](#) Human

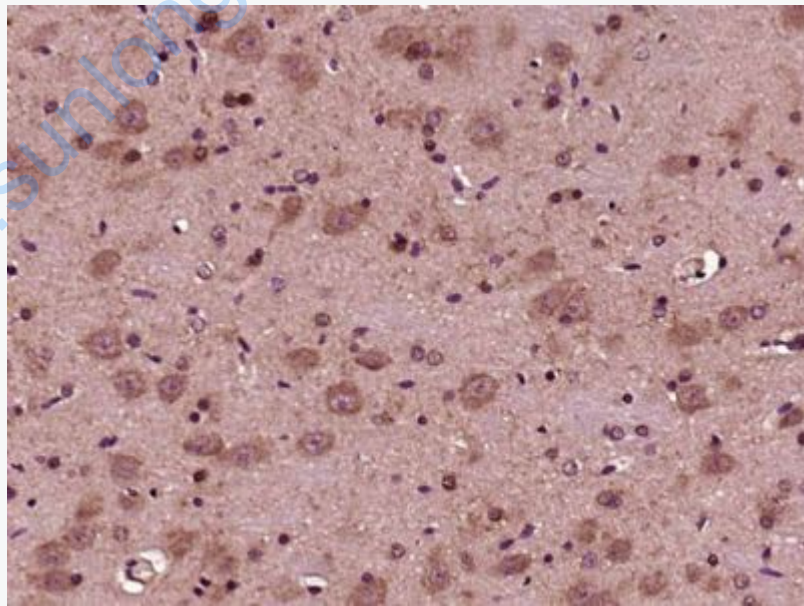
[Unigene: 358571](#) Mouse

[Unigene: 54503](#) Rat

Important Note:

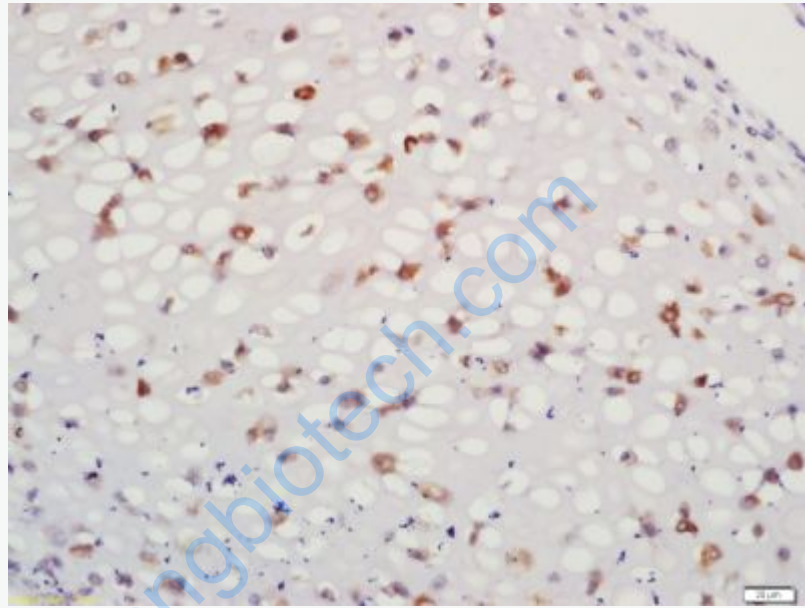
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Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for

30min; Antibody incubation with (Aggrecan) Polyclonal Antibody, Unconjugated (SL11655R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: bone of mouse embryo; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Aggrecan Polyclonal Antibody, Unconjugated(SL11655R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining