

ACAN Rabbit pAb

Catalog Number: bs-11655R

Target Protein: ACAN

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Mouse, Rat (predicted:Human)

Predicted MW: 99 kDa

Entrez Gene: 11595

Swiss Prot: Q61282

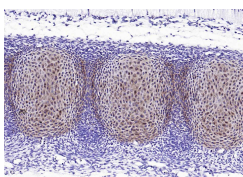
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

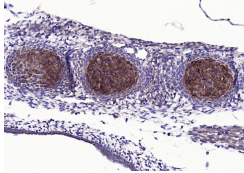
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Aggrecan is a member of a family of large, aggregating proteoglycans (also including versican, 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.

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Rat embryo); 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 (ACAN) Polyclonal Antibody, Unconjugated (bs-11655R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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PRODUCT SPECIFIC PUBLICATIONS

[IF=13.3] Han Yin. et al. Chondrocyte-derived apoptotic vesicles enhance stem cell biological function for the treatment of cartilage injury. CHEM ENG J. 2024 Aug;;154501 IF ; Rat . 10.1016/j.cej.2024.154501

[IF=7.5] Ching-Yu Lee. et al. Development and functional evaluation of a hyaluronic acid coated nano-formulation with kaempferol as a novel intra-articular agent for Knee Osteoarthritis treatment. BIOMED PHARMACOTHER. 2024 Jun;175:116717 IHC ; Rat . 38749179

[IF=5.3] Jianbo Xu. et al. Exploring the pharmacological mechanism of Glycyrrhiza uralensis against KOA through integrating network pharmacology and experimental assessment. J CELL MOL MED. 2024 May;28(9):e18319 IHC ; Mouse . 38742846

[IF=3.923] Fang DP et al. Platelet - rich plasma promotes the regeneration of cartilage engineered by mesenchymal stem cells and collagen hydrogel via the TGF - β /SMAD signaling pathway. J Cell Physiol. 2019;1-11. WB ; Rabbit . doi:10.1002/jcp.28211

[IF=3.998] Carolina C. Zuliani. et al. Chondrogenesis of human amniotic fluid stem cells in Chitosan-Xanthan scaffold for cartilage tissue engineering. Sci Rep-Uk. 2021 Feb;11(1):1-9 IHC ; Human . 33542256