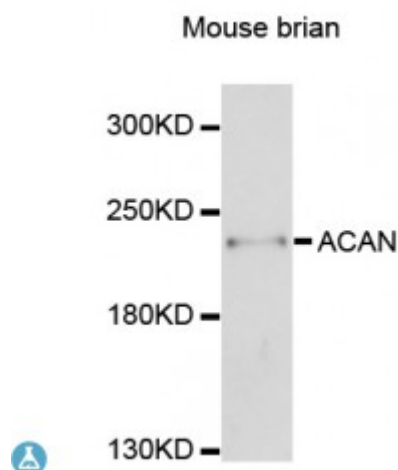


Anti-ACAN Antibody



Description

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.

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|---------------------------|--|
| Model | STJ113946 |
| Host | Rabbit |
| Reactivity | Mouse |
| Applications | WB |
| Immunogen | A synthetic peptide corresponding to a sequence within amino acids 350-450 of human ACAN (NP_037359.3). |
| Gene Symbol | ACAN |
| Dilution range | WB 1:500 - 1:1000 |
| Tissue Specificity | Restricted to cartilages |
| Purification | Affinity purification |
| Note | For Research Use Only (RUO). |
| Protein Name | Aggrecan core protein Cartilage-specific proteoglycan core protein CSPCP Chondroitin sulfate proteoglycan core protein 1 Chondroitin sulfate proteoglycan 1 |
| Molecular Weight | 250.193 kDa |

| | |
|---|--|
| Clonality | Polyclonal |
| Conjugation | Unconjugated |
| Isotype | IgG |
| Formulation | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |
| Storage Instruction | Store at -20C. Avoid freeze / thaw cycles. |
| Database Links | HGNC:319OMIM:155760Reactome:R-HSA-1474228 |
| Alternative Names | Aggrecan core protein Cartilage-specific proteoglycan core protein CSPCP Chondroitin sulfate proteoglycan core protein 1 Chondroitin sulfate proteoglycan 1 |
| Function | This proteoglycan is a major component of extracellular matrix of cartilaginous 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 |
| Cellular Localization | Secreted, extracellular space, extracellular matrix |
| 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, |