

bs-41346R**[Primary Antibody]****ACAN Rabbit pAb****BioSS**
ANTIBODIES

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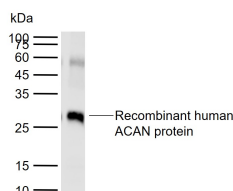
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) ELISA (1:5000-10000)
Clonality: Polyclonal		
GeneID: 176	SWISS: P16112	Reactivity: Human (predicted: Mouse, Rat)
Target: ACAN		
Immunogen: Recombinant human ACAN protein: 2321-2530/2530.		
Purification: affinity purified by Protein A		Predicted MW.: 222 kDa
Concentration: 1mg/ml		Subcellular Location: Secreted
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 —

Sample: Lane 1: Recombinant human ACAN protein
Primary: Anti-ACAN (bs-41346R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 222 kDa
Observed band size: 27 kDa

— SELECTED CITATIONS —

- **[IF=7.9]** Jie Yang. et al. Gubi Zhitong formula alleviates osteoarthritis in vitro and in vivo via regulating BNIP3L-mediated mitophagy. PHYTOMEDICINE. 2024 Jan;;155279 FCM,WB ;Rat. 10.1016/j.phymed.2023.155279
- **[IF=5.714]** Yuhan Qu. et al. Chicoric acid attenuates tumor necrosis factor- α -induced inflammation and apoptosis via the Nrf2/HO-1, PI3K/AKT and NF- κ B signaling pathways in C28/I2 cells and ameliorates the progression of osteoarthritis in a rat model. INT IMMUNOPHARMACOL. 2022 Oct;;111:109129 WB ;Human. 35961266
- **[IF=4.657]** Shen, Yue. et al. Hederagenin Suppresses Inflammation and Cartilage Degradation to Ameliorate the Progression of Osteoarthritis: An In vivo and In vitro Study. INFLAMMATION. 2022 Nov;;1-24 WB ;Human. 36348189