bs-4191R **[Primary Antibody]**

ADAMTS4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9507 **SWISS:** O75173

Target: ADAMTS4

Immunogen: KLH conjugated synthetic peptide derived from human ADAMTS4: 501-839/839.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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: This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

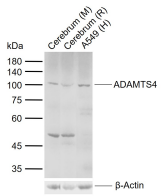
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Sheep, Cow)

Predicted MW.: 90 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Lane 3: Human A549 cell lysates Primary: Anti-ADAMTS4 (bs-4191R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kDa Observed band size: 100 kDa

SELECTED CITATIONS

- **[IF=20.722]** Fanqi Hu. et al. Identification of inflammatory regulation roles of thalidomide/ruxolitinib in nucleus pulposus and construction of polyelectrolyte nanocomplexes-impregnated injectable hydrogels for synergistic intervertebral disk degeneration treatment. Nano Today. 2022 Jun;44:101462 WB ;Human. 10.1016/j.nantod.2022.101462

- **[IF=7.9]** Nan Wang. et al. The Sanbi Decoction alleviates intervertebral disc degeneration in rats through intestinal flora and serum metabolic homeostasis modulation. PHYTOMEDICINE. 2024 May;127:155480 WB ;Rat. 38484462
- **[IF=4.868]** Liu Y et al. Aspirin-Mediated Attenuation of Intervertebral Disc Degeneration by Ameliorating Reactive Oxygen Species In Vivo and In Vitro. Oxid Med Cell Longev. 2019 Nov 6;2019:7189854. ICC ;Human. 31781346
- **[IF=3.9]** Jingjin Dai. et al. Osteoclast-derived exosomal miR-212-3p suppressed the anabolism and accelerated the catabolism of chondrocytes in osteoarthritis by targeting TGF-β1/Smad2 signaling. ARCH BIOCHEM BIOPHYS. 2024 Jan;751:109827 WB ;Mouse. 38000494
- **[IF=2.535]** Lei J et al. LncRNA SNHG1 Alleviates IL-1β-induced Osteoarthritis by Inhibiting miR-16-5p-mediated p38 MAPK and NF-κB Signaling Pathways. Biosci Rep. 2019 Aug 5. pii: BSR20191523. WB ;Human. 31383786