bs-3573R **[Primary Antibody]**

ADAMTS5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 11096 **SWISS:** Q9UNA0

Target: ADAMTS5

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 the 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 encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and functions as an aggrecanase that cleaves aggrecan, a major proteoglycan of cartilage, and may mediate cartilage destruction in osteoarthritis. [provided by RefSeq, Feb 2016]

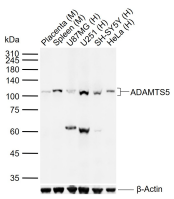
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse)

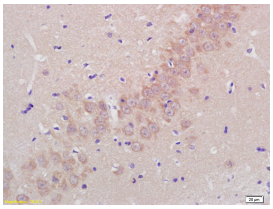
Predicted MW.: 102 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Spleen tissue lysates Lane 3: Human U87MG cell lysates Lane 4: Human U251 cell lysates Lane 5: Human SH-SY5Y cell lysates Lane 6: Human HeLa cell lysates Primary: Anti-ADAMTS5 (bs-3573R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 102 kDa Observed band size: 102 kDa



Tissue/cell: rat brain tissue; 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-Aggrecanase-2/ADAMTS5 Polyclonal Antibody, Unconjugated(bs-3573R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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=17.694]** Li Guoqing. et al. An injectable liposome-anchored teriparatide incorporated gallic acid-grafted gelatin hydrogel for osteoarthritis treatment. NAT COMMUN. 2023 May;14(1):1-18 IHC ;Mouse. 37258510

- **[IF=14.3]** Nivetha Gunaseelan. et al. Targeted K-Edge Nanoprobes From Praseodymium and Hafnium for Ratiometric Tracking of Dual Biomarkers using Spectral Photon Counting CT. ADV SCI. 2024 Oct;:2408408 ;. 39373721
- **[IF=14.3]** Nivetha Gunaseelan. et al.Targeted K‐Edge Nanoprobes From Praseodymium and Hafnium for Ratiometric Tracking of Dual Biomarkers using Spectral Photon Counting CT.adv sci (weinh).2024 Dec;11(46):e2408408. ;Mouse. 39373721
- **[IF=13.3]** Siyang Cao. et al. Bioengineered chondrocyte membrane-camouflaged anti-ferroptotic drug-loaded liposomes: A highly effective cartilage-targeted drug delivery system for osteoarthritis treatment. CHEM ENG J. 2024 Sep;:155619 WB,IHC ;Mouse. 10.1016/j.cej.2024.155619