

Product Datasheet

ADAMTS5 Antibody - BSA Free NBP2-15286

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-15286

ADAMTS5 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	102 kDa

Product Description	
Host	Rabbit
Gene ID	11096
Gene Symbol	ADAMTS5
Species	Human, Mouse
Reactivity Notes	Zebrafish (84%). .
Immunogen	Recombinant protein encompassing a sequence within the center region of human ADAMTS5. The exact sequence is proprietary.

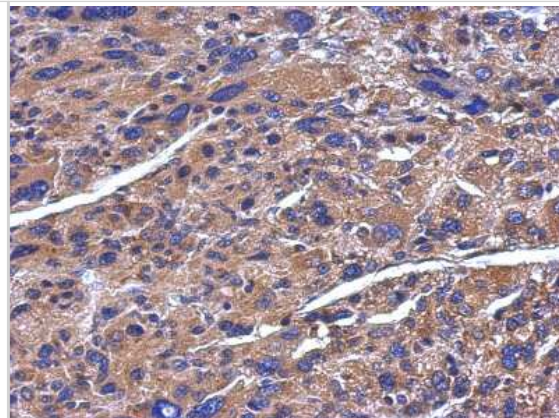
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:10000, Immunohistochemistry 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

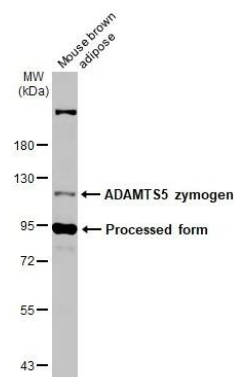
Immunohistochemistry-Paraffin: ADAMTS5 Antibody [NBP2-15286] - Human hepatoma. ADAMTS5 antibody [N3C2], Internal dilution: 1:250. Scale bar = 100 um. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



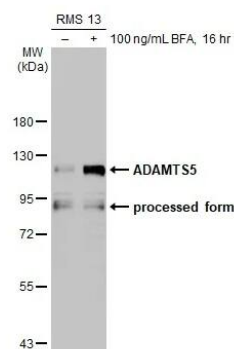
Immunohistochemistry-Paraffin: ADAMTS5 Antibody [NBP2-15286] - Human hepatoma, using ADAMTS5 antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



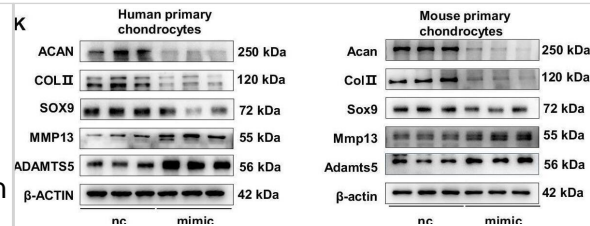
Mouse tissue extracts (50 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with ADAMTS5 antibody [N3C2], Internal diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



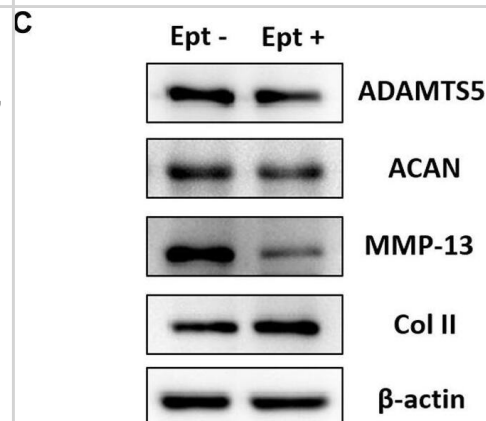
Untreated (-) and treated (+) RMS 13 whole cell extract (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with ADAMTS5 antibody [N3C2], Internal diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



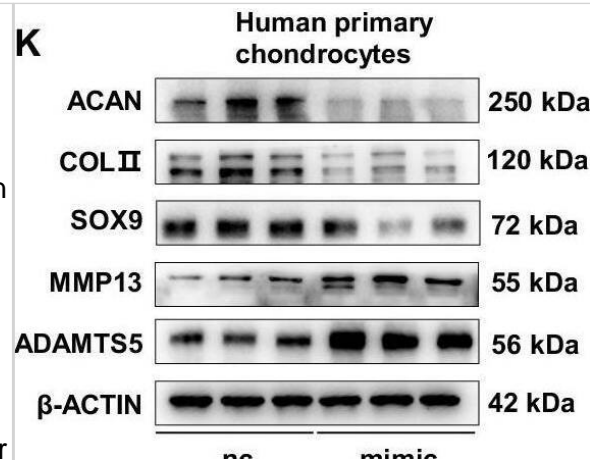
MiR-23b-3p was the key mediator of osteocyte-derived extracellular vesicles in regulating cartilage metabolism. A schematic diagram illustrating the separation of extracellular vesicles (EVs) and their enrichment from human tissues and mouse plasma. Heatmaps of relative miRNA differences (B) and enrichment analysis (C). D The miR-23b-3p levels in LS-EVs and HS-EVs (n = 5). E The miR-23b-3p levels in subchondral bone (SCB) osteocytes from WT and Dicer-cKO mice with destabilization of the medial meniscus (DMM) surgery (n = 5). F The miR-23b-3p levels in cartilage and SCB osteocytes from human LS/HS tissues (n = 20). G The miR-23b-3p levels in cartilage and SCB osteocytes from mice with DMM surgery (n = 6). H The pre-miR-23b-3p levels in cartilage and SCB osteocytes from human LS/HS tissues (n = 20). I The pre-miR-23b-3p levels in cartilage and SCB osteocytes from mice with DMM surgery (n = 6). J Alcian blue staining. Scale bar in upper panel, 1 mm. Scale bar in lower panel, 2 mm. K Western blot analysis of COLII, ACAN, SOX9, MMP13 and ADAMTS5 protein expression in primary human and mouse chondrocytes transfected with nc or mimic (n = 3). L The schematic depicted the overexpression of miR-23b-3p in cartilage through intraarticular injection of rAAV5-miR-23b-3p-mcherry (rAAV5-miR-23b-3p) or negative control (rAAV5-nc) in 8-week-old male mice following DMM surgery (n = 8). M The Safranin O images of cartilage. Scale bar in upper panel, 200 μ m. Scale bar in lower panel, 100 μ m. Data are presented as the mean \pm SD. Data was analyzed by unpaired two-tailed Student's t-test (D, E, G, I and K) and paired two-tailed Student's t-test (F and H). Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40399261>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Regulatory effects of Ept on catabolic and anabolic dynamics in hOACs. (A) Immunofluorescent staining against Col II and aggrecan (ACAN) in Ept or vehicle treated hOACs. (B) PCR results of Col II, ACAN, MMP-13, and ADAMTS5 (n = 3). (C) Representative western blot detection of ADAMTS5, ACAN, MMP-13, Col II, and β -actin (n = 3). (D) Normalized quantitative data from western blot assay in Ept or vehicle treated hOACs. (E and F) Elisa detection of ADAMTS5 and MMP-13 levels in culture medium (n = 3). Mean \pm SD, $p^* < 0.05$, $p^{**} < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36568290>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



MiR-23b-3p was the key mediator of osteocyte-derived extracellular vesicles in regulating cartilage metabolism. A schematic diagram illustrating the separation of extracellular vesicles (EVs) and their enrichment from human tissues and mouse plasma. Heatmaps of relative miRNA differences (B) and enrichment analysis (C). D The miR-23b-3p levels in LS-EVs and HS-EVs (n = 5). E The miR-23b-3p levels in subchondral bone (SCB) osteocytes from WT and Dicer-cKO mice with destabilization of the medial meniscus (DMM) surgery (n = 5). F The miR-23b-3p levels in cartilage and SCB osteocytes from human LS/HS tissues (n = 20). G The miR-23b-3p levels in cartilage and SCB osteocytes from mice with DMM surgery (n = 6). H The pre-miR-23b-3p levels in cartilage and SCB osteocytes from human LS/HS tissues (n = 20). I The pre-miR-23b-3p levels in cartilage and SCB osteocytes from mice with DMM surgery (n = 6). J Alcian blue staining. Scale bar in upper panel, 1 mm. Scale bar in lower panel, 2 mm. K Western blot analysis of COLII, ACAN, SOX9, MMP13 and ADAMTS5 protein expression in primary human and mouse chondrocytes transfected with nc or mimic (n = 3). L The schematic depicted the overexpression of miR-23b-3p in cartilage through intraarticular injection of rAAV5-miR-23b-3p-mcherry (rAAV5-miR-23b-3p) or negative control (rAAV5-nc) in 8-week-old male mice following DMM surgery (n = 8). M The Safranin O images of cartilage. Scale bar in upper panel, 200 μ m. Scale bar in lower panel, 100 μ m. Data are presented as the mean \pm SD. Data was analyzed by unpaired two-tailed Student's t-test (D, E, G, I and K) and paired two-tailed Student's t-test (F and H). Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40399261>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Huang Y, Huang L, Li L et al. MicroRNA-25-3p therapy for intervertebral disc degeneration by targeting the IL-1 β /ZIP8/MTF1 signaling pathway with a novel thermo-responsive vector *Annals of Translational Medicine* 2020-12-14 [PMID: 33313245] (Western Blot, Human)

Li P, Lv S, Jiang W et al. Exosomes derived from umbilical cord mesenchymal stem cells protect cartilage and regulate the polarization of macrophages in osteoarthritis *Annals of Translational Medicine* 2022-09-01 [PMID: 36267713] (Western Blot, Human)

Yagi M, Endo K, Komori K, Sekiya I Comparison of the effects of oxidative and inflammatory stresses on rat chondrocyte senescence *Scientific reports* 2023-05-11 [PMID: 37169906] (WB, Rat)

Details:
Dilution: 1:1000

Bai H, Yuan R, Zhang Z et al. Intra-articular Injection of Baicalein Inhibits Cartilage Catabolism and NLRP3 Inflammasome Signaling in a Posttraumatic OA Model *Oxidative medicine and cellular longevity* 2021-09-02 [PMID: 34512868] (IF/IHC, Rat)

Si HB, Yang TM, Li L et al. miR-140 Attenuates the Progression of Early-Stage Osteoarthritis by Retarding Chondrocyte Senescence *Mol Ther Nucleic Acids* 2019-11-09 [PMID: 31790972] (WB, IHC-P, Human, Rat)

Ding Lei, Zampogna Biagio, Vasta Sebastiano et al. Why Do Osteochondral Allografts Survive. Comparative Analysis of Cartilage Biochemical Properties Unveils a Molecular Basis for Durability. *The American Journal of Sports Medicine* 2015-01-01 [PMID: 26311444] (WB, Human)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-89247PEP	ADAMTS5 Recombinant Protein Antigen

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