

ADAMTS-2 (m): 293T Lysate: sc-124925

BACKGROUND

ADAMTS (a disintegrin and metalloproteinase domain with Thrombospondin type-1 modules) is a family of zinc-dependent proteases that are implicated in a variety of normal and pathological conditions, including arthritis and cancer. ADAMTS protein family members contain an N-terminal propeptide domain, a metalloproteinase domain, a disintegrin-like domain and a C-terminus that contains a varying number of Thrombospondin type-1 (TSP-1) motifs. ADAMTS genes are primarily expressed in fetal tissues, including the lung, kidney and liver. ADAMTS-2 cleaves the propeptides of Collagen Type I and II, but not Collagen Type III, prior to fibril assembly. It may also play a role in development aside from collagen biosynthesis. ADAMTS-2 is secreted and associated with the extracellular matrix, with the highest levels in skin, bone, tendon and aorta. Defects in ADAMTS2 are the cause of Ehlers-Danlos syndrome type VIIC (EDS VIIC), a recessively inherited connective-tissue disorder characterized clinically by severe skin fragility and joint hypermobility.

REFERENCES

1. Tang, B.L. and Hong, W. 1999. ADAMTS: a novel family of proteases with an ADAM protease domain and Thrombospondin 1 repeats. *FEBS Lett.* 445: 223-225.
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4. Cal, S., Obaya, A.J., Llamazares, M., Garabaya, C., Quesada, V. and Lopez-Otin, C. 2002. Cloning, expression analysis, and structural characterization of seven novel human ADAMTSs, a family of metalloproteinases with disintegrin and Thrombospondin 1 domains. *Gene* 283: 49-62.
5. Wang, W.M., Lee, S., Steiglitz, B.M., Scott, I.C., Lebares, C.C., Allen, M.L., Brenner, M.C., Takahara, K. and Greenspan, D.S. 2003. Transforming growth factor β induces secretion of activated ADAMTS-2. A procollagen III N-proteinase. *J. Biol. Chem.* 278: 19549-19557.

CHROMOSOMAL LOCATION

Genetic locus: Adamts2 (mouse) mapping to 11 B1.3.

PRODUCT

ADAMTS-2 (m): 293T Lysate represents a lysate of mouse ADAMTS-2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

ADAMTS-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ADAMTS-2 antibodies. Recommended use: 10-20 μ l per lane.

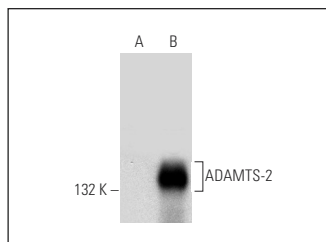
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ADAMTS-2 (F-4): sc-393562 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ADAMTS-2 expression in ADAMTS-2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

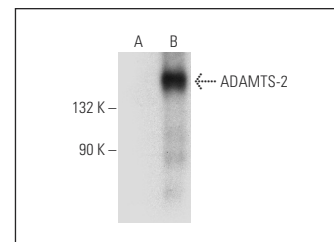
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ADAMTS-2 (F-4): sc-393562. Western blot analysis of ADAMTS-2 expression in non-transfected: sc-117752 (A) and mouse ADAMTS-2 transfected: sc-124925 (B) 293T whole cell lysates.



ADAMTS-2 (H-4): sc-398556. Western blot analysis of ADAMTS-2 expression in non-transfected: sc-117752 (A) and mouse ADAMTS-2 transfected: sc-124925 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.