SANTA CRUZ BIOTECHNOLOGY, INC.

Punctin (h): 293T Lysate: sc-114698

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Punctin, also known as Punctin-1 or ADAMTS-like protein-1 (ADAMTSL-1), is a secreted, glycosylated protein belonging to the ADAMTS family of metalloproteases. Unlike the typical ADAMTS protein, Punctin lacks the disintegrin-like and metalloproteinase domains. Punctin consists of a signal peptide, four Thrombospondin type-1 repeats (TSRs), a cysteine-rich domain and a spacer region. O-fucosylation of the TSR repeats regulates the secretion of Punctin. Punctin is closely related to the larger ADAMTS-like protein Punctin-2, and both are similar to the invertebrate protein Papilin. Punctin is expressed in skeletal muscle, localizing to the extracellular matrix, and it plays a significant role in extracellular matrix turnover. Two isoforms exist for Punctin due to alternative splicing. Isoform 1 is the full length mature protein. Isoform 2 lacks amino acids 362-378 and 457-525 and contains a distinct sequence for amino acids 448-456.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: ADAMTSL1 (human) mapping to 9p22.2.

PRODUCT

Punctin (h): 293T Lysate represents a lysate of human Punctin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

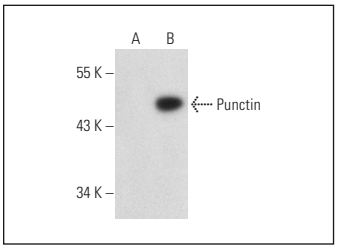
APPLICATIONS

Punctin (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Punctin antibodies. Recommended use: 10-20 µl per lane.

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

Punctin (PU29Z): sc-74258 is recommended as a positive control antibody for Western Blot analysis of enhanced human Punctin expression in Punctin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Punctin (PU29Z): sc-74258. Western blot analysis of Punctin expression in non-transfected: sc-117752 (**A**) and human Punctin transfected: sc-114698 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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