

SMU1 (h): 293T Lysate: sc-111772

BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. SMU1 (suppressor of mec-8 and unc-52 homolog), also known as BWD (brain-enriched WD), is a member of the WD-repeat SMU1 family and contains one CTLH domain, one LisH domain and six WD-repeats. SMU1 is a homolog of the *C. elegans* protein SMU1, a ubiquitously expressed nuclear protein that is believed to play a role in alternative splicing events of unc-52. In mammals, SMU1 is a component of the spliceosome and appears to exhibit a conserved function, affecting the splicing of the mammalian unc-52 homolog, namely Perlecan. Mutations in the gene encoding SMU1 may affect the function of the spliceosome.

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: SMU1 (human) mapping to 9p21.1.

PRODUCT

SMU1 (h): 293T Lysate represents a lysate of human SMU1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SMU1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SMU1 antibodies. Recommended use: 10-20 µl per lane.

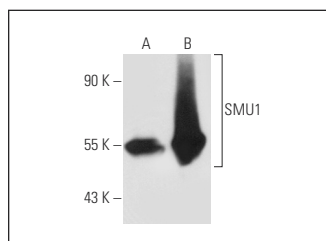
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SMU1 (JS-12): sc-100896 is recommended as a positive control antibody for Western Blot analysis of enhanced human SMU1 expression in SMU1 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



SMU1 (JS-12): sc-100896. Western blot analysis of SMU1 expression in non-transfected: sc-117752 (A) and human SMU1 transfected: sc-111772 (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.