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SANTA CRUZ BIOTECHNOLOGY, INC.

U1 snRNP 70 (h): 293T Lysate: sc-115559

BACKGROUND

U1 small nuclear ribonucleoprotein (U1 snRNP 70 or U1 70) is a component of the RNA spliceosome, a complex of proteins that are required for the precise excision of introns from pre-messenger RNA (pre-mRNA). U1 snRNP 70 specifically associates with the single stranded loop of hairpin 1 on U1 snRNA (small nuclear RNA). Like other snRNPs, U1 snRNP 70 contains a single RNA binding domain of 80-90 amino acids that is located within the central portion of the protein, and is both necessary and sufficient for the specific U1 snRNA binding *in vitro*. This interaction, which occurs independently of ATP, is essential for the commitment to the pre-mRNA splicing pathway, as it facilitates the association of other proteins with the spliceosome. U1 snRNP 70 is diffusely localized in the cytoplasm at the onset of mitosis and as mitosis progresses through telophase, U1 snRNP 70 accumulates in the daughter nuclei.

REFERENCES

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6. Ihn, H., Yamane, K., Yazawa, N., Kubo, M., Fujimoto, M., Sato, S., Kikuchi, K. and Tamaki, K. 1999. Distribution and antigen specificity of anti-U1RNP antibodies in patients with systemic sclerosis. Clin. Exp. Immunol. 117: 383-387.

CHROMOSOMAL LOCATION

Genetic locus: SNRP70 (human) mapping to 19q13.33.

PRODUCT

U1 snRNP 70 (h): 293T Lysate represents a lysate of human U1 snRNP 70 transfected 293T cells and is provided as 100 µg protein in 200 µl 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.

APPLICATIONS

U1 snRNP 70 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive U1 snRNP 70 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.

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.