



SRP14 (h): 293T Lysate: sc-117379

BACKGROUND

Short interspersed elements (SINEs) are ubiquitous repetitive DNAs that occur in the mammalian genome. The progenitor of the most common human SINE, the Alu repeat, may be 7SL RNA, which is a component of the signal recognition particle, SRP. SRP is a ribonucleoprotein complex that mediates the targeting of proteins to the endoplasmic reticulum. The "Alu domain" of SRP comprises the heterodimer of the SRP9 and SRP14 proteins, which are bound to the 5' and 3' terminal sequences of SRP RNA. SRP9/14 binding may be crucial to the transcription, maturation, nucleolus localization and transport of SRP RNA.

RESEARCH USE

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

REFERENCES

1. Chang, D.Y., Nelson, B., Bilyeu, T., Hsu, K., Darlington, G.J. and Maraia, R.J. 1994. A human Alu RNA-binding protein whose expression is associated with accumulation of small cytoplasmic Alu RNA. *Mol. Cell. Biol.* 14: 3949-3959.
2. Hsu, K., Chang, D.Y. and Maraia, R.J. 1995. Human signal recognition particle (SRP) Alu-associated protein also binds Alu interspersed repeat sequence RNAs: characterization of human SRP9. *J. Biol. Chem.* 270: 10179-10186.
3. Larsen, N., Samuelsson, T. and Swieb, C. 1998. The signal recognition particle database (SRPDB). *Nucleic Acids Res.* 26: 177-178.
4. Weichenrieder, O., Wild, K., Strub, K. and Cusack, S. 2000. Structure and assembly of the Alu domain of the mammalian signal recognition particle. *Nature* 408: 167-173.
5. LocusLink Report (LocusID: 6726). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: SRP14 (human) mapping to 15q15.1.

PRODUCT

SRP14 (h): 293T Lysate represents a lysate of human SRP14 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SRP14 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SRP14 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.

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.