

SFRS17A (h): 293T Lysate: sc-114800

BACKGROUND

SFRS17A (splicing factor, arginine/serine-rich 17A), also known as XE7, 721P, XE7Y, CCDC133, CXYorf3 or DXYS155E, is a 695 amino acid protein that contains one RRM (RNA recognition motif) domain and localizes to nuclear speckles. Widely expressed with highest expression in lung, heart, brain, liver, kidney, pancreas, skeletal muscle, placenta and activated B-cells, SFRS17A is a subunit of the spliceosome and functions to regulate alternative splice site selection for a variety of mRNA precursors. SFRS17A can also function as a monomer that can interact with ZNF265 and SF2/ASF (both of which are involved in pre-mRNA splicing and transcriptional regulation) via its Arg/Ser-rich domain. Due to alternative splicing events, SFRS17A is expressed as three different isoforms.

REFERENCES

1. Ellison, J.W., Ramos, C., Yen, P.H. and Shapiro, L.J. 1992. Structure and expression of the human pseudoautosomal gene XE7. *Hum. Mol. Genet.* 1: 691-696.
2. Ellison, J., Passage, M., Yu, L.C., Yen, P., Mohandas, T.K. and Shapiro, L. 1992. Directed isolation of human genes that escape X inactivation. *Somat. Cell Mol. Genet.* 18: 259-268.
3. Online Mendelian Inheritance in Man, OMIM[™]. 1994. Johns Hopkins University, Baltimore, MD. MIM Number: 465000. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Mangs, A.H., Speirs, H.J., Goy, C., Adams, D.J., Markus, M.A. and Morris, B.J. 2006. XE7: a novel splicing factor that interacts with SF2/ASF and ZNF265. *Nucleic Acids Res.* 34: 4976-4986.
5. Mangs, A.H. and Morris, B.J. 2007. ZRANB2: structural and functional insights into a novel splicing protein. *Int. J. Biochem. Cell Biol.* 40: 2353-2357.

CHROMOSOMAL LOCATION

Genetic locus: AKAP17A (human) mapping to Xp22.33/Yp11.31.

PRODUCT

SFRS17A (h): 293T Lysate represents a lysate of human SFRS17A transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SFRS17A (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SFRS17A antibodies. Recommended use: 10-20 µl per lane.

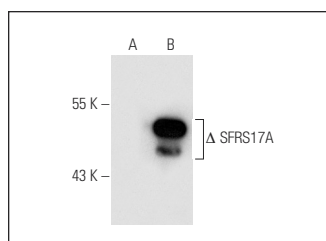
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SFRS17A (FE-06): sc-101139 is recommended as a positive control antibody for Western Blot analysis of enhanced human SFRS17A expression in SFRS17A 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



SFRS17A (FE-06): sc-101139. Western blot analysis of truncated SFRS17A expression in non-transfected: sc-117752 (A) and truncated human SFRS17A transfected: sc-114800 (B) 293T whole cell lysates.

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.

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.