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SANTA CRUZ BIOTECHNOLOGY, INC.

FUS/TLS (m2): 293T Lysate: sc-126873

BACKGROUND

EWS and FUS/TLS are nuclear RNA-binding proteins. As a result of chromosome translocation, the EWS gene is fused to a variety of transcription factors, including ATF-1, in human neoplasias. In the Ewing family of tumors, the N-terminal domain of EWS is fused to the DNA-binding domain of various Ets transcription factors, including Fli-1, ETV1 and FEV. The EWS/Fli-1 chimeric protein acts as a more potent transcriptional activator than Fli-1 and can promote cell transformation. In human myxoid liposarcomas and myeloid leukemias, chromosomal translocation results in the fusion of the N-terminal region of FUS/TLS with the open reading frame of CHOP. In normal cells, FUS/TLS binds to the DNA-binding domains of nuclear steroid receptors and is also present in subpopulations of TFIID complexes, indicating a potential role for FUS/TLS in the processing of primary transcripts that are generated in response to hormone-induced transcription.

REFERENCES

1. Delattre, O., Zucman, J., Plougastel, B., Desmaze, C., Melot, T., Peter, M., Kovar, H., Joubert, I., de Jong, P., Rouleau, G., et al. 1992. Gene fusion with an ETS DNA-binding domain caused by chromosome translocation in human tumours. Nature 359: 162-165.
2. May, W.A., Lessnick, S.L., Braun, B.S., Klemsz, M., Lewis, B.C., Lunsford, L.B., Hromas, R. and Denny, C.T. 1993. The Ewing's sarcoma EWS/Fli-1 fusion gene encodes a more potent transcriptional activator and is a more powerful transforming gene than Fli-1. Mol. Cell. Biol. 13: 7393-7398.
3. Crozat, A., Aman, P., Mandahl, N. and Ron, D. 1993. Fusion of CHOP to a novel RNA-binding protein in human myxoid liposarcoma. Nature 363: 640-644.
4. Jeon, I.S., Davis, J.N., Braun, B.S., Sublett, J.E., Roussel, M.F., Denny, C.T. and Shapiro, D.N. 1995. A variant Ewing's sarcoma translocation (7;22) fuses the EWS gene to the ETS gene ETV1. Oncogene 10: 1229-1234.
5. Fujimura, Y., Ohno, T., Siddique, H., Lee, L., Rao, V.N. and Reddy, E.S. 1996. The EWS-ATF-1 gene involved in malignant melanoma of soft parts with t(12;22) chromosome translocation, encodes a contitutive transcriptional activator. Oncogene 12: 159-167.
6. Peter, M., Couturier, J., Pacquement, H., Michon, J., Thomas, G., Magdelenat, H. and Delattre, O. 1997. A new member of the ETS family fused to EWS in Ewing tumors. Oncogene 14: 1159-1164.
7. Powers, C.A., Mathur, M., Raaka, B.M., Ron, D. and Samuels, H.H. 1998. TLS (translocated-in-liposarcoma) is a high-affinity interactor for steroid, thyroid hormone and retinoid receptors. Mol. Endocrinol. 12: 4-18.

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.

CHROMOSOMAL LOCATION

Genetic locus: Fus (mouse) mapping to 7 F3.

PRODUCT

FUS/TLS (m2): 293T Lysate represents a lysate of mouse FUS/TLS transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

FUS/TLS (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive FUS/TLS antibodies. Recommended use: 10-20 µl per lane.

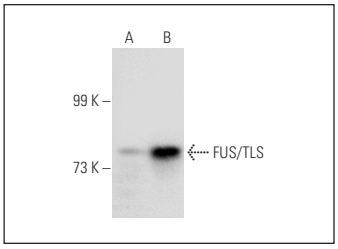
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FUS/TLS (4H11): sc-47711 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse FUS/TLS expression in FUS/TLS 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



FUS/TLS (4H11): sc-47711. Western blot analysis of FUS/TLS expression in non-transfected: sc-117752 (**A**) and mouse FUS/TLS transfected: sc-126873 (**B**) 293T whole cell lysates.

RESEARCH USE

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