SANTA CRUZ BIOTECHNOLOGY, INC.

OS4 (h): 293T Lysate: sc-116975

BACKGROUND

OS4, also known as CTDSP2 (carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 2) or SCP2, is a 271 amino acid nuclear protein that is implicated in the development of sarcomas. Expressed ubiquitously with particularly high expression observed in the pancreas, OS4 functions in the regulation of androgen-dependent transcription by globally silencing neuronal genes. OS4 contains one FCP1 homology domain and, acting as a Smad2/3 linker phosphatase, can enhance Smad2/3 signaling. Through its ability to interact with Smad2/3, OS4 contributes to the final signaling events in the Smad pathway, and thus is thought to be a crucial component in the metastasis of certain cancers. Overexpression of OS4 may lead to the development of primary sarcomas, as well as brain tumors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CTDSP2 (human) mapping to 12q14.1.

PRODUCT

OS4 (h): 293T Lysate represents a lysate of human OS4 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.

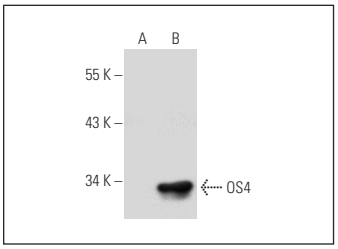
APPLICATIONS

OS4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive OS4 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.

OS4 (2230C1a): sc-81347 is recommended as a positive control antibody for Western Blot analysis of enhanced human OS4 expression in OS4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



OS4 (2230C1a): sc-81347. Western blot analysis of OS4 expression in non-transfected: sc-117752 (**A**) and human OS4 transfected: sc-116975 (**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.