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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 μ g protein in 200 μ l 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.

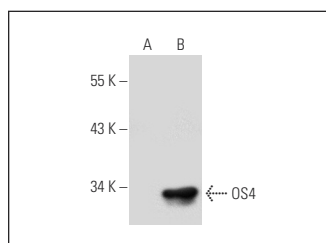
APPLICATIONS

OS4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive OS4 antibodies. Recommended use: 10-20 μ l 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.