TSC-22 D4 (h): 293T Lysate: sc-114517



The Power to Question

BACKGROUND

Transforming growth factor β -stimulated clone 22 (TSC-22) acts as a transcriptional regulator to modulate cell growth and differentiation, as well as cell death. TSC-22 contains a leucine zipper domain as well as a nuclear export signal, resulting in cytoplasmic localization in living cells. However, concomitant with the induction of apoptosis, TSC-22 translocates from the cytoplasm to the nucleus and shows transcriptional regulatory activity. TSC-22 acts as a major downstream component in both the TGF β pathway and the PPAR γ signaling pathway. The association of these two pathways with tumor suppression, and the significant downregulation of TSC-22 mRNA in various cancer types, implies an antiproliferative role for TSC-22. TSC-22 D4 (TSC22 domain family protein 4), also known as TILZ2 or THG-1, is a 395 amino acid protein that is related to TSC-22 and functions as a transcriptional repressor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TSC22D4 (human) mapping to 7g22.1.

PRODUCT

TSC-22 D4 (h): 293T Lysate represents a lysate of human TSC-22 D4 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

TSC-22 D4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TSC-22 D4 antibodies. Recommended use: 10-20 μ l per lane

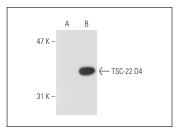
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TSC-22 D4 (JJ-2): sc-101193 is recommended as a positive control antibody for Western Blot analysis of enhanced human TSC-22 D4 expression in TSC-22 D4 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TSC-22 D4 (JJ-2): sc-101193. Western blot analysis of TSC-22 D4 expression in non-transfected: sc-117752 (**A**) and human TSC-22 D4 transfected: sc-114517 (**B**) 293T whele cell besters

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.

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