

TSC-22 D4 (JJ-2): sc-101193

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 7q22.1.

SOURCE

TSC-22 D4 (JJ-2) is a mouse monoclonal antibody raised against recombinant TSC-22 D4 of human origin.

PRODUCT

Each vial contains 100 μ g IgG $_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TSC-22 D4 (JJ-2) is recommended for detection of TSC-22 D4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TSC-22 D4 siRNA (h): sc-63173, TSC-22 D4 shRNA Plasmid (h): sc-63173-SH and TSC-22 D4 shRNA (h) Lentiviral Particles: sc-63173-V.

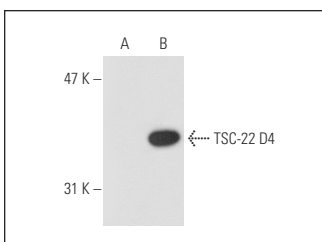
Molecular Weight of TSC-22 D4: 41 kDa.

Positive Controls: TSC-22 D4 (h): 293T Lysate: sc-114517 or K-562 whole cell lysate: sc-2203.

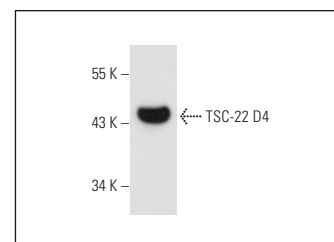
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

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 whole cell lysates.



TSC-22 D4 (JJ-2): sc-101193. Western blot analysis of TSC-22 D4 expression in K-562 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. 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.