

TC 21 (m): 293T Lysate: sc-127639

BACKGROUND

H-, K- and N-Ras represent the prototype members of a family of small G proteins that are frequently activated to an oncogenic state in a wide variety of human tumors. Activation is due to point mutations at either position 12 or 61 within their coding sequence. Such mutations cause these proteins to be constitutively converted to their active GTP-bound rather than the inactive GDP-bound state. The related human R-Ras gene was initially cloned by low stringency hybridization methods. Position 38 or 87 (analogous to position 12 and 61 in H-Ras) mutants of R-Ras have been shown to be capable of activating oncogenic function. An additional member of the Ras oncogene family, designated TC 21 (or R-Ras-2) is most closely related to R-Ras. While wildtype TC 21 does not exhibit transforming potential *in vitro*, mutant forms of TC 21 that possess amino acid substitutions analogous to those that activate Ras oncogenic potential exhibit potent transforming activities comparable to the activity characteristic of the known oncogenic Ras proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rras2 (mouse) mapping to 7 F1.

PRODUCT

TC 21 (m): 293T Lysate represents a lysate of mouse TC 21 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TC 21 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TC 21 antibodies. Recommended use: 10-20 µl per lane.

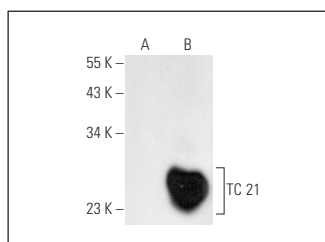
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TC 21 (F-8): sc-166262 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TC 21 expression in TC 21 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



TC 21 (F-8): sc-166262. Western blot analysis of TC 21 expression in non-transfected: sc-117752 (A) and mouse TC 21 transfected: sc-127639 (B) 293T whole cell lysates.

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.

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.