SANTA CRUZ BIOTECHNOLOGY, INC.

D53 (d1C5): sc-59155



BACKGROUND

The cell commits to dividing during the G_2/M phase transition, and the timing of mitotic entry is tightly regulated to guarantee correct chromosome segregation. D53, also referred to as tumor protein D52-like 1 (TPD52L1), is a coiled-coil motif-bearing member of the D52 tumor protein family. D53 intereacts with 14-3-3, a negative regulator of the G_2/M transition, in breast cancer cells. Expression of D53 is highly upregulated at the G_2/M phase transition in breast cancer cell lines, and deregulated expression of this protein can adversely affect the completion of mitosis. D53 may function as a signaling intermediate and/or regulator of vesicle trafficking and cell proliferation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TPD52L1 (human) mapping to 6q22.31.

SOURCE

D53 (d1C5) is a mouse monoclonal antibody raised against recombinant D53 of human origin.

PRODUCT

Each vial contains 100 $\mu g~lg G_{2b}$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

D53 (d1C5) is recommended for detection of D53 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for D53 siRNA (h): sc-63274, D53 shRNA Plasmid (h): sc-63274-SH and D53 shRNA (h) Lentiviral Particles: sc-63274-V.

Molecular Weight of D53: 25 kDa.

DATA



D53 (d1C5): sc-59155. Immunoperoxidase staining or human breast carcinoma tissue.

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.