

N-Myc (m): 293T Lysate: sc-121906

BACKGROUND

The v-Myc oncogene, initially identified in the MC29 avian retrovirus, causes myelocytomas, carcinomas, sarcomas and lymphomas, and belongs to a family of oncogenes conserved throughout evolution. In humans, the family consists of five genes: c-Myc, N-Myc, R-Myc, L-Myc and B-Myc. Amplification of the N-Myc gene has been found in human neuroblastomas and cell lines. The extent of N-Myc amplification correlates well with the stage of neuroblastoma disease. Immunological studies have shown that the human N-Myc gene encodes a nuclear phosphoprotein that exhibits relatively short (30 min) half life *in vivo*. The prototype member of the family, c-Myc p67, binds DNA in a sequence-specific manner subsequent to dimerization with a second basic region helix-loop-helix leucine zipper motif protein designated Max.

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CHROMOSOMAL LOCATION

Genetic locus: MYCN (human) mapping to 2p24.3.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

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

APPLICATIONS

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

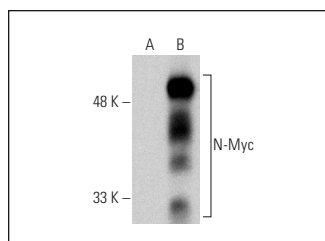
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

N-Myc (B8.4.B): sc-53993 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse N-Myc expression in N-Myc transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

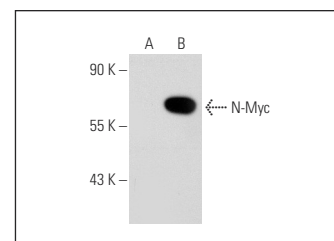
RECOMMENDED SUPPORT REAGENTS

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



N-Myc (B8.4.B) HRP: sc-53993 HRP. Direct western blot analysis of N-Myc expression in non-transfected: sc-117752 (A) and mouse N-Myc transfected: sc-121906 (B) 293T whole cell lysates.



N-Myc (3C165): sc-71633. Western blot analysis of N-Myc expression in non-transfected: sc-117752 (A) and mouse N-Myc transfected: sc-121906 (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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.