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 prototypic 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.

CHROMOSOMAL LOCATION

Genetic locus: MYCN (human) mapping to 2p24.3; Mycn (mouse) mapping to 12 A1.1.

SOURCE

N-Myc (B8.4.B) is a mouse monoclonal antibody raised against N-terminal recombinant N-Myc of human origin.

PRODUCT

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

N-Myc (B8.4.B) is available conjugated to agarose (sc-53993 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53993 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-53993 PE), fluorescein (sc-53993 FITC), Alexa Fluor® 488 (sc-53993 AF488), Alexa Fluor® 546 (sc-53993 AF546), Alexa Fluor® 594 (sc-53993 AF594) or Alexa Fluor® 647 (sc-53993 AF647), 200 µg/ml, for WB (RGB), IF, IHQP and FCM; and to either Alexa Fluor® 680 (sc-53993 AF680) or Alexa Fluor® 790 (sc-53993 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

N-Myc (B8.4.B) is recommended for detection of N-Myc of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].


Molecular Weight of N-Myc: 67 kDa.

Positive Controls: N-Myc (m): 293T Lysate: sc-121906, IMR-32 cell lysate: sc-2409 or SW480 cell lysate: sc-2219.

RESEARCH USE

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

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA

SELECT PRODUCT CITATIONS


PROTOCOLS

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