



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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- Gefahrgutzuschlag
- Expressversand

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# c-Myb (h): 293T Lysate: sc-117003

## BACKGROUND

The highly leukemogenic avian retrovirus E26 contains two oncogenes, v-Myb and v-Ets, which are expressed together as a fusion protein. The cellular homolog of v-Myb, designated c-Myb, encodes a transcription factor. Deletion or disruption of a negative regulatory domain mapping within the carboxy-terminal domain of c-Myb results in enhanced transactivating capacity and in parallel, leads to activation of its ability to transform hemopoietic cells. c-Myb is expressed preferentially, but not exclusively, in immature hemopoietic cells and its expression decreases as cells differentiate. A second member of the Myb proto-oncogene family, B-Myb, encodes a second sequence-specific DNA-binding protein. B-Myb RNA levels are low or undetectable in quiescent cells but increase at the G<sub>1</sub>/S phase transition following mitogenic stimulation. Studies suggest that B-Myb expression rescues cells from p53-induced G<sub>1</sub> arrest mediated by p21.

## REFERENCES

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- Gonda, T.J., et al. 1985. Nucleotide sequence of cDNA clones of the murine Myb proto-oncogene. *EMBO J.* 4: 2004-2008.
- Sakura, H., et al. 1989. Delineation of three functional domains of the transcriptional activator encoded by the c-Myb proto-oncogene. *Proc. Natl. Acad. Sci. USA* 86: 5758-5762.
- Mizuguchi, G., et al. 1990. DNA-binding activity and transcriptional activator function of the human B-Myb protein compared with c-Myb. *J. Biol. Chem.* 265: 9280-9284.
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- Favier, D., et al. 1994. Detection of proteins that bind to the leucine zipper motif of c-Myb. *Oncogene* 9: 305-311.
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## CHROMOSOMAL LOCATION

Genetic locus: MYB (human) mapping to 6q23.3.

## PRODUCT

c-Myb (h): 293T Lysate represents a lysate of human c-Myb transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## 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.

## APPLICATIONS

c-Myb (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive c-Myb antibodies. Recommended use: 10-20 µl per lane.

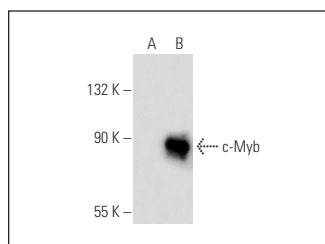
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

c-Myb (D-7): sc-74512 is recommended as a positive control antibody for Western Blot analysis of enhanced human c-Myb expression in c-Myb 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



c-Myb (D-7): sc-74512. Western blot analysis of c-Myb expression in non-transfected: sc-117752 (A) and human c-Myb transfected: sc-117003 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.