



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# B-Myb (h): 293T Lysate: sc-116447

## 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

- Gonda, T.J., et al. 1984. Expression of Myb, Myc and Fos proto-oncogenes during the differentiation of a murine myeloid leukaemia. *Nature* 310: 249-251.
- 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.
- Ramsay, R.G., et al. 1991. Increase in specific DNA binding by carboxyl truncation suggests a mechanism for activation of Myb. *Oncogene* 6: 1875-1879.
- Favier, D., et al. 1994. Detection of proteins that bind to the leucine zipper motif of c-Myb. *Oncogene* 9: 305-311.
- Lin, D., et al. 1994. Constitutive expression of B-Myb can bypass p53-induced Waf1/Cip1-mediated G<sub>1</sub> arrest. *Proc. Natl. Acad. Sci. USA* 91: 10079-10083.
- Garcia, P., et al. 2006. The transcription factor B-Myb is essential for S-phase progression and genomic stability in diploid and polyploid megakaryocytes. *J. Cell Sci.* 119: 1483-1493.
- Pilkinton, M., et al. 2007. Mip/LIN-9 regulates the expression of B-Myb and the induction of cyclin A, cyclin B, and Cdk1. *J. Biol. Chem.* 282: 168-175.

## STORAGE

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

## PROTOCOLS

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

## CHROMOSOMAL LOCATION

Genetic locus: MYBL2 (human) mapping to 20q13.12.

## PRODUCT

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

## APPLICATIONS

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

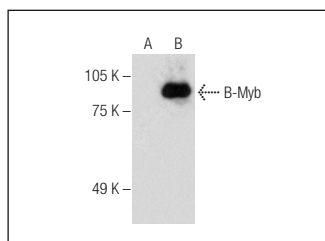
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

B-Myb (C-5): sc-390198 is recommended as a positive control antibody for Western Blot analysis of enhanced human B-Myb expression in B-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



B-Myb (C-5): sc-390198. Western blot analysis of B-Myb expression in non-transfected: sc-117752 (A) and human B-Myb transfected: sc-116447 (B) 293T whole cell lysates.

## RESEARCH USE

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