

v-Myb/c-Myb (3H2746): sc-73247

BACKGROUND

The Myb family of transcription factors regulates proliferation, differentiation and apoptosis of hematopoietic cells. The avian myeloblastosis viral (v-Myb) protein is nuclear and binds to specific DNA sequences. The gene encoding v-Myb is oncogenic, causing monoclastic leukemia and transforming myelomonocytic cells by deregulating the expression of specific target genes. v-Myb functions as a transcriptional activator, and it can repress biologically relevant genes such as Ets-2, which promotes macrophage differentiation. The proto-oncogene c-Myb encodes for a nuclear protein that plays a role in transcriptional regulation and may be essential for hematopoietic cell proliferation. Another member of the Myb family, designated a-Myb, is expressed in proliferating B cell centroblasts. Transgenic mice overexpressing a-Myb possess enhanced hyperplasia of the lymph nodes.

REFERENCES

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3. Bartonek, P., et al. 2002. bFGF signaling and v-Myb cooperate in sustained growth of primitive progenitors. *Oncogene* 21: 400-410.
4. Wang, D.M. and Lipsick, J.S. 2002. Mutational analysis of the transcriptional activation domains of v-Myb. *Oncogene* 21: 1611-1615.
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CHROMOSOMAL LOCATION

Genetic locus: MYB (human) mapping to 6q23.3; Myb (mouse) mapping to 10 A3.

SOURCE

v-Myb/c-Myb (3H2746) is a mouse monoclonal antibody raised against full length recombinant v-Myb.

PRODUCT

Each vial contains 50 μ g IgG_{2a} in 0.5 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

v-Myb/c-Myb (3H2746) is recommended for detection of v-Myb and c-Myb of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

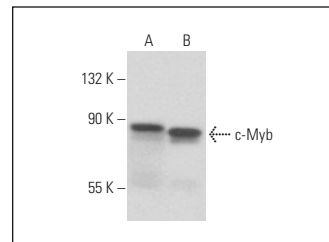
Suitable for use as control antibody for c-Myb siRNA (h): sc-29855, c-Myb siRNA (m): sc-29856, c-Myb shRNA Plasmid (h): sc-29855-SH, c-Myb shRNA Plasmid (m): sc-29856-SH, c-Myb shRNA (h) Lentiviral Particles: sc-29855-V and c-Myb shRNA (m) Lentiviral Particles: sc-29856-V.

Molecular Weight of v-Myb: 72 kDa.

Molecular Weight of c-Myb: 75 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, CCRF-CEM nuclear extract: sc-2146 or Jurkat nuclear extract: sc-2132.

DATA



c-Myb (3H2746): sc-73247. Western blot analysis of c-Myb expression in Jurkat (A) and CCRF-CEM (B) nuclear extracts.

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.



See **c-Myb (D-7): sc-74512** for c-Myb antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647.