SANTA CRUZ BIOTECHNOLOGY, INC.

v-Myb/a-Myb (3H2745): sc-73246

BACKGROUND

The Myb family of transcription factors regulates proliferation, differentiation and apoptosis of hematopoletic cells. The avian myeloblastosis viral (v-Myb) protein is nuclear and binds to specific DNA sequences. The gene encoding v-Myb is oncogenic, causing monoblastic 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., Pajer, P., Karafi·t, V., Blendinger, G., Dvorak, M. and Zenke, M. 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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8. Kanei-Ishii, C., Nomura, T., Tanikawa, J., Ichikawa-Iwata, E. and Ishii, S. 2004. Differential sensitivity of v-Myb and c-Myb to WNT-1-induced protein degradation. J. Biol. Chem. 279: 44582-44589.

SOURCE

v-Myb/a-Myb (3H2745) is a mouse monoclonal antibody raised against recombinant full length v-Myb/a-Myb of *Xenopus laevis* origin.

PRODUCT

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

APPLICATIONS

v-Myb/a-Myb (3H2745) is recommended for detection of v-Myb and a-Myb of *Xenopus laevis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with c-Myb in human or mouse.

Molecular Weight of v-Myb/a-Myb: 72 kDa.

SELECT PRODUCT CITATIONS

1. Li, K., Guo, W., Li, Z., Wang, Y., Sun, B., Xu, D., Ling, J., Song, H., Liao, Y., Wang, T., Jing, B., Hu, M., Kuang, Y., Wang, Q., Yao, F., Sun, A., Zhu, L., Wang, L. and Deng, J. 2019. ALDH2 repression promotes lung tumor progression via accumulated acetaldehyde and DNA damage. Neoplasia 21: 602-614.
2. Xie, S., Jiang, X., Qin, R., Song, S., Lu, Y., Wang, L., Chen, Y. and Lu, D. 2021. miR-1307 promotes hepatocarcinogenesis by CALR-OSTC-endoplasmic reticulum protein folding pathway. iScience 24: 103271.

STORAGE

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

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.