

v-Myb/a-Myb (5E11): sc-56808

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, and is expressed in proliferating B cell centroblasts. Transgenic mice overexpressing a-Myb possess enhanced hyperplasia of the lymph nodes.

REFERENCES

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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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SOURCE

v-Myb/a-Myb (5E11) is a mouse monoclonal antibody raised against recombinant full length v-Myb/a-Myb of *Xenopus laevis* origin.

PRODUCT

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

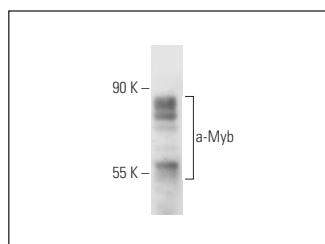
APPLICATIONS

v-Myb/a-Myb (5E11) 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 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with c-myb in human or mouse.

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

Positive Controls: Jurkat whole cell lysate: sc-2204.

DATA



v-Myb/a-Myb (5E11): sc-56808. Western blot analysis of a-Myb expression in Jurkat whole cell lysate.

SELECT PRODUCT CITATIONS

1. Dahle, Ø., Bakke, O. and Gabrielsen, O.S. 2004. c-Myb associates with PML in nuclear bodies in hematopoietic cells. *Exp. Cell Res.* 297: 118-126.
2. Bishop, J.A. and Westra, W.H. 2018. Myb translocation status in salivary gland epithelial-myoeplithelial carcinoma: evaluation of classic, variant, and hybrid forms. *Am. J. Surg. Pathol.* 42: 319-325.
3. Shah, A.A., Oliai, B.R. and Bishop, J.A. 2019. Consistent LEF-1 and Myb immunohistochemical expression in human papillomavirus-related multiphenotypic sinonasal carcinoma: a potential diagnostic pitfall. *Head Neck Pathol.* 13: 220-224.

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.