

# c-Myb (C-19): sc-517

## 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> to 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

c-Myb (C-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of c-Myb of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-517 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-517 X, 200 µg/0.1 ml.

## APPLICATIONS

c-Myb (C-19) is recommended for detection of c-Myb of mouse, rat and human 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)], 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).

Suitable for use as control antibody for c-Myb siRNA (h): sc-29855, c-Myb siRNA (m): sc-29856, c-Myb siRNA (r): sc-108009, c-Myb shRNA Plasmid (h): sc-29855-SH, c-Myb shRNA Plasmid (m): sc-29856-SH, c-Myb shRNA Plasmid (r): sc-108009-SH, c-Myb shRNA (h) Lentiviral Particles: sc-29855-V, c-Myb shRNA (m) Lentiviral Particles: sc-29856-V and c-Myb shRNA (r) Lentiviral Particles: sc-108009-V.

c-Myb (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

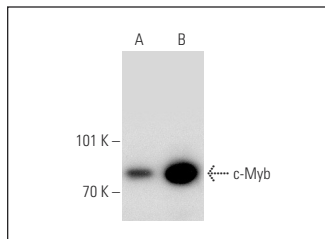
Molecular Weight of c-Myb: 75 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Jurkat whole cell lysate: sc-2204 or HL-60 whole cell lysate: sc-2209.

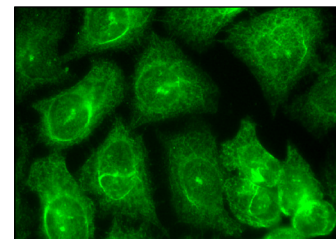
## STORAGE

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

## DATA



c-Myb (C-19): sc-517. Western blot analysis of c-Myb expression in Jurkat (A) and CCRF-CEM (B) whole cell lysates.



c-Myb (C-19): sc-517. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Kitada, T., et al. 1997. Hepatic expression of c-Myb in chronic human liver disease. *Hepatology* 26: 1506-1512.
- Lefebvre, C., et al. 2010. A human B-cell interactome identifies MYB and FOXM1 as master regulators of proliferation in germinal centers. *Mol. Syst. Biol.* 6: 377.
- Fan, H., et al. 2011. Molecular mechanism underlying the differential MYF6 expression in postnatal skeletal muscle of Duroc and Pietrain breeds. *Gene* 486: 8-14.
- McCartan, D., et al. 2012. Global characterization of the SRC-1 transcriptome identifies ADAM22 as an ER-independent mediator of endocrine-resistant breast cancer. *Cancer Res.* 72: 220-229.
- Song, S.H., et al. 2012. Ldb1 regulates carbonic anhydrase 1 during erythroid differentiation. *Biochim. Biophys. Acta* 1819: 885-891.
- Li, J., et al. 2013. Microvesicle-mediated transfer of miR-150 from monocytes to endothelial cells promotes angiogenesis. *J. Biol. Chem.* 288: 23586-23596.
- Pan, J.H., et al. 2014. Myb permits multilineage airway epithelial cell differentiation. *Stem Cells* 32:3245-3256.
- Du, M.J., et al. 2014. Estrogen induces Vav1 expression in human breast cancer cells. *PLoS ONE* 9: e99052.

## RESEARCH USE

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



Try **c-Myb (D-7): sc-74512**, our highly recommended monoclonal alternative to c-Myb (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **c-Myb (D-7): sc-74512**.