c-Myb (D-7): sc-74512

**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 hematopoietic cells. c-Myb is expressed preferentially, but not exclusively, in immature hematopoietic 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 G1 to S phase transition following mitogenic stimulation. Studies suggest that B-Myb expression rescues cells from p53-induced G1 arrest mediated by p21.

**CHROMOSOMAL LOCATION**

Genetic locus: MYB (human) mapping to 6q23.3; Myb (mouse) mapping to 6o2.3-2.4.

**SOURCE**

c-Myb (D-7) is a mouse monoclonal antibody raised against amino acids 500-640 of c-Myb of human origin.

**PRODUCT**

Each vial contains 200 μg IgG₂a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-74512 X, 200 μg/0.1 ml.

c-Myb (D-7) is available conjugated to agarose (sc-74512 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74512 HRP), 200 μg/ml, for WB, IHC/IF and ELISA; to either phycoerythrin (sc-74512 PE), fluorescein (sc-74512 FITC), Alexa Fluor® 488 (sc-74512 AF488), Alexa Fluor® 546 (sc-74512 AF546), Alexa Fluor® 594 (sc-74512 AF594) or Alexa Fluor® 647 (sc-74512 AF647), 200 μg/ml for WB (RGB), IF, IHC/IF and FCM; and to either Alexa Fluor® 680 (sc-74512 AF680) or Alexa Fluor® 790 (sc-74512 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

c-Myb (D-7) is recommended for detection of c-Myb of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 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.

c-Myb (D-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of c-Myb: 75 kDa.

**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 (D-7) HRP: sc-74512 HRP. Direct western blot analysis of c-Myb expression in THP-1 (A), K-562 (B), CDRF-CEM (C), Jurkat (D) and MOLT-4 (E) whole cell lysates.](image1)

![c-Myb (D-7): sc-74512. Western blot analysis of c-Myb expression in THP-1 (A), K-562 (B) and U-989 M (C) whole cell lysates.](image2)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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