c-Myc (N-262): sc-764

**BACKGROUND**

C-Myc-, N-Myc- and L-Myc-encoded proteins function in cell proliferation, differentiation and neoplastic disease. Amplification of the c-Myc gene has been found in several types of human tumors including lung, breast and colon carcinomas. The presence of three sequence motifs in the c-Myc COOH terminus, including the leucine zipper, the helix-loop-helix and a basic region, provided initial evidence for a sequence-specific binding function. A basic region helix-loop-helix leucine zipper motif (bHLH-Zip) protein, designated Max, specifically associates with c-Myc, N-Myc and L-Myc proteins. The Myc-Max complex binds to DNA in a sequence-specific manner under conditions where neither Max nor Myc exhibits appreciable binding. Max can also form heterodimers with at least two additional bHLH-Zip proteins, Mad 1 and Mxi1, and Mad 1-Max dimers have been shown to repress transcription through interaction with mSin3.

**APPLICATIONS**

C-Myc (N-262) is recommended for detection of c-Myc p67 of mouse, rat, human, monkey, Xenopus laevis and zebrafish 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), non cross-reactive with c-Myc tag.


C-Myc (N-262) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of c-Myc: 67 kDa.

**STORAGE**

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

**SOURCE**

C-Myc (N-262) is a rabbit polyclonal antibody raised against amino acids 1-262 of c-Myc 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-764 X, 200 µg/0.1 ml.

**DATA**

Western blot analysis of c-Myc phosphorylation in non-transfected: sc-117752 (A), untreated mouse c-Myc transfected: sc-118892 (B,E) and lambda protein phosphatase (sc-200312A) treated mouse c-Myc transfected: sc-118892 (C,F). 293T whole cell lysates. Antibodies tested include p-c-Myc (Thr 58/Ser 62)-R: sc-8000 R(A,B,C) and c-Myc (N-262): sc-764 (D,E,F).

**SELECT PRODUCT CITATIONS**