

# DB098: c-Myc (9E10)

## **Background:**

The transcription factor c-Myc is a proto-oncogene that is at the focal point in cell cycle regulation, metabolism, apoptosis, differentiation, cell adhesion, and tumorigenesis (1-3). In normal cells the expression of c-Myc is tightly regulated but in human cancers c-Myc is frequently deregulated (2&3). c-Myc also plays a pivotal role in apoptosis, most notably its connections to the CD95/Fas death receptor pathway (1&4). These different biological responses to c-Myc are most likely the result of different overlapping subsets of c-Myc target genes (1).

# **Origin:**

c-Myc (9E10) is provided mouse monoclonal  $IgG_1$  antibody, raised against a synthetic peptide corresponding to amino acids 408-439 within the carboxy terminal domain of human c-Myc.

## **Product Details:**

Each vial contains 100  $\mu$ g/ml mouse monoclonal IgG<sub>1</sub> c-Myc (9E10) DB098, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

### **Specificity:**

c-Myc (9E10) DB098 reacts with c-Myc p67 of human origin by western blotting, immunopreciptation, and immunohistochemistry (including paraffin-embedded sections). Also recognizes the 9E10 c-Myc Tag. Recommended starting dilution for western bloting 1:100.

### **Storage:**

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

#### **References:**

- 1. Hoffman B, Amanullah A, Shafarenko M, Liebermann DA. 2002. The proto-oncogene c-myc in hematopoietic development and leukemogenesis. Oncogene 21(21): 3414-3421.
- Boxer LM, Dang CV. 2001. Translocations involving c-myc and c-myc function. Oncogene 20(40):5595-5610.
  Dang CV, Resar LM, Emison E, Kim S, Li Q, Prescott JE, Wonsey D, Zeller K. 1999. Function of the c-Myc oncogenic transcription factor. Exp Cell Res 253(1): 63-77.
- Prendergast GC. 1999. Mechanisms of apoptosis by c-Myc. Oncogene 18(19):2967-2987.