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**Antibody to Human c-Myc**  
**MOUSE MONOCLONAL**

**Catalog Number:** AB-407  
**Quantity:** 500 micrograms, 1 milligram  
**Format:** Lyophilized  
**Host:** synthetic peptides  
**Isotype:** IgG1  
**Clone:** NYRhc-myc

**Background:**

c-Myc is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of c-Myc have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt's lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene.

**Specificity and Preparation:**

Mouse anti-human c-Myc is purified over a protein A column. The protein concentration is 1 mg/ml in PBS after reconstitution. This antibody was produced in BALB/c mice.

**Usage and Storage:**

Reported to be effective for immunoblotting (western blot, 1:2,000 will yield a strong band). Reconstitute with sterile H<sub>2</sub>O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. In lyophilized form, for long periods, store at 4°C in a dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. Antibody is shipped lyophilized at ambient temperature. This material is provided for LABORATORY RESEARCH USE ONLY.

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