

**c-Myc (N-term) Rabbit Monoclonal Antibody  
Product Data Sheet**

**Catalog # 1472-1**

**Clone ID:** Y69      **Lot #:** YC051001  
**Quantity:** 100 µl  
**Type:** Rabbit Monoclonal IgG  
**Species Cross-reactivity:**  Human  Mouse  Rat  
**Applications:**  WB  IHC  ICC  Flow Cytometry  IP  
**Molecular Wt.:** 57 kDa  
**UniProt ID:** P01106

**Background:** Oncogene-encoded proteins c-Myc, N-Myc, and L-Myc function in cell proliferation, differentiation and neoplastic disease. Amplification of the c-Myc gene has been found in several types of human tumors, the N-Myc gene in neuroblastomas (1), and the L-Myc gene in human small cell lung carcinomas (2). c-Myc protein is a transcription factor localized to the nucleus of the cell. It seems to be involved in activating the transcription of growth-related genes. c-Myc binds to DNA during transcription as a heterodimeric complex with Max. c-Myc is phosphorylated in vitro by p44/42 MAP kinase at Ser62 (3) and in vivo at both Thr58 and Ser62. Mutation of Thr58 and Ser62 to Ala inhibits the ability of c-Myc to activate transcription (3).

**Specificity:** A synthetic peptide corresponding to residues in N-terminus of human c-Myc was used as immunogen.

**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

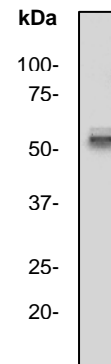
**Recommended Dilutions:**

WB: 1:10,000  
IHC: 1:50  
ICC: 1:250-500  
IP: 1:150

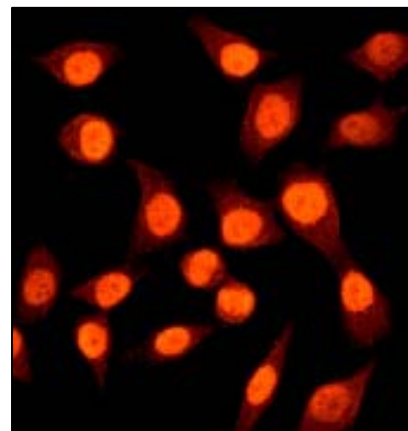
**Background References:**

1. Nisen, P.D. et al. Enhanced expression of the N-myc gene in Wilms' tumors. *Cancer Res.* 46: 6217-6222 (1986).
2. Nau, M.N. et al. L-myc, a new myc-related gene amplified and expressed in human small cell lung cancer. *Nature* 318: 69-73 (1985).
3. Gupta, S. et al. Transactivation of Gene Expression by Myc is Inhibited by Mutation at the Phosphorylation Sites Thr-58 and Ser-62. *Proc. Natl. Acad. Sci. USA* 90: 3216-3220 (1993).

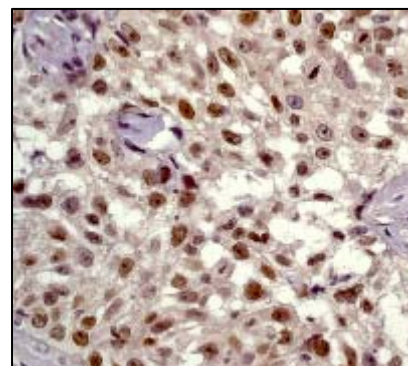
Product QC'd by: \_\_\_\_\_



**Fig 1.** Western blot analysis of Jurkat cell lysate using anti-c-Myc (N-term) RabMAb (catalog #1472-1), dilution 1:10,000.



**Fig 2.** Immunofluorescent staining of HeLa cells using anti-c-MYC (N-term) RabMAb (catalog #1472-1).



**Fig 3.** Immunohistochemical analysis of paraffin-embedded human skin carcinoma using anti-c-MYC (N-term) RabMAb (catalog #1472-1).

**For research use only. Not for use in diagnostic or therapeutic applications.**

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit [www.epitomics.com](http://www.epitomics.com).

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