

**Mouse (monoclonal)
Anti-Human c-myc
Unconjugated
PRODUCT ANALYSIS SHEET**

Catalog Number:	AHO0062
Lot Number:	See product label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	9E10.3
Isotype:	IgG1 κ (mouse)
Form of Antibody:	Purified immunoglobulin in 10 mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
Preservation:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by Protein G chromatography.
Immunogen:	A synthetic peptide, corresponding to aa 408-439 (AEEQKLISEEDLLRKRRERQLKH KLEQLRNSCA) from C-terminus of human c-myc, coupled to KLH.
Specificity:	<p>This monoclonal antibody recognizes a protein of 64-67 kDa, identified as the c-myc gene product. c-myc is a member of a family of closely related genes which also includes N-myc, L-myc, P-myc, R-myc, S-myc, and B-myc.</p> <p>c-myc protein is involved in the control of cell proliferation, transformation and differentiation. This protein is expressed during embryonic development and is amplified and/or overexpressed in variety of tumors. The cellular localization of this protein is predominantly nuclear.</p> <p>The epitope recognized by this antibody spans between aa 410-419 (EQKLISEEDL), which corresponds to a portion of an α helical region of human c-myc protein.</p>
Species Reactivity:	Human. Does not react with mouse, rat, or chicken. Other species were not tested.
Applications:	This antibody is suitable for use in Western blotting, electron microscopy, immunofluorescence, immunoprecipitation of EQKLISEEDL-tagged proteins, and immunohistochemistry with cryostat, or formalin-fixed, paraffin embedded tissue sections. Staining of formalin fixed, paraffin-embedded tissue sections requires boiling the sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature for 20 minutes. This antibody is not suitable for immunoprecipitation of full length c-myc protein.
Suggested Working Dilutions:	<ul style="list-style-type: none">• Electron Microscopy• Flow Cytometry• Immunofluorescence• Western Blotting (Ab-5 is better) (Ab 1-2µg/ml for 2h at RT)• Immunohistology (Formalin/paraffin) (Ab 2-4µg/ml for 30 min at RT)

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Recommended Positive Control:	Raji and breast tumors.
Storage:	Store at 2-8°C.
Expiration Date:	Expires one year from date of receipt when stored as instructed.
References:	<p>Evan, G.I., <i>et al.</i> (1985) Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. <i>Mol. Cell. Biol.</i> 5(12):3610-3616.</p> <p>Lukas, J., <i>et al.</i> (1996) Deregulated expression of E2F family members induces S-phase entry and overcomes p16^{INK4A}-mediated growth suppression. <i>Mol. Cell. Biol.</i> 16(3):1047-1057.</p> <p>DePinho, R.A., <i>et al.</i> (1991) myc family oncogenes in the development of normal and neoplastic cells. <i>Adv. Cancer Res.</i> 57:1-46.</p> <p>Gosney, J.R., <i>et al.</i> (1990) C-myc oncoprotein in bronchial carcinoma: expression in all major morphological types. <i>Anticancer Res.</i> 10(3):623-628.</p> <p>Steiner, P., <i>et al.</i> (1995) Identification of a myc-dependent step during the formation of active G₁ cyclin-cdk complexes. <i>The EMBO Journal</i> 14(19):4814-4826.</p>

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