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Monoclonal Antibody to c-Myc - AP

Alternate names:	c-myc tag, myc tag, myc-tag
Catalog No.:	SM1863AP
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	p62c-myc is primarily located to the cell nucleus, but has also been shown to localised to the cytoplasm in several cell lines. Overexpression of c-myc has been reported in a wide variety of human cancers.
Uniprot ID:	P01106
NCBI:	NP_002458
GeneID:	4609
Host / Isotype:	Mouse / IgG1
Clone:	9E10
Immunogen:	Synthetic peptide sequence (AEEQKLISEEDLL) corresponding to the C-terminal region of Human c-myc. Spleen cells from immunised Balb/c mice were fused with cells of the myeloma cell line.
Format:	**State:** Liquid purified IgG fraction. **Purification:** Affinity Chromatography on Protein G. **Buffer Solution:** PBS, pH 7.4 **Preservatives:** 0.09% Sodium Azide **Label:** AP – Alkaline Phosphatase
Applications:	**ELISA:** 1/500-1/5000. **Western Blot:** 1/100-1/500 (Non-Reducing Conditions). Detects a band of approximately 62kDa in Colo 320HSR cell lysates. **Immunohistochemistry on Frozen and Paraffin Sections:** This product does not require protein digestion pre-treatment of paraffin sections prior to staining. It does not require antigen retrieval using heat treatment prior to staining of paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects the 62kDa c-myc gene product, which is involved in the regulation of the cell cycle and cell growth. This antibody may also be used to detect the commonly used c-Myc 'Tag'.
Species Reactivity:	**Tested:** Human.

Storage: Store the antibody undiluted at 2-8°C.
DO NOT FREEZE!
Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf life: One year from despatch.

General References:

1. Evan, G.I. et al. (1985) Isolation of monoclonal antibodies specific for human c-myc. proto-oncogene product. Mol. Cell. Biol. 5: 3610 -3616.
2. Spandidos, D. A. et al. (1987) Elevated expression of the myc gene in human benign and malignant breast lesions compared to normal tissue. Anticancer Res. 7: 1299 -1304.
3. Borodina, I. et al. (2010) Display of wasp venom allergens on the cell surface of Saccharomyces cerevisiae. Microb. Cell Fact. 9: 74-86.
4. Groeger, G. et al. (2007) Co-operative Cdc42 and Rho signalling mediates ephrinB-triggered endothelial cell retraction. Biochem J. 404: 23-9.
5. Head, B. et al. (2009) Inducible proteolytic inactivation of OPA1 mediated by the OMA1 protease in mammalian cells. J Cell Biol. 187: 959-66.
6. Hilpert, K. et al. (2001) Anti-c-myc antibody 9E10: epitope key positions and variability characterized using peptide spot synthesis on cellulose. Protein Eng. 14: 803-6.
7. Krauss, N. et al. (2008) The structure of the anti-c-myc antibody 9E10 Fab fragment/epitope peptide complex reveals a novel binding mode dominated by the heavy chain hypervariable loops. Proteins. 73: 552-65.

Pictures:

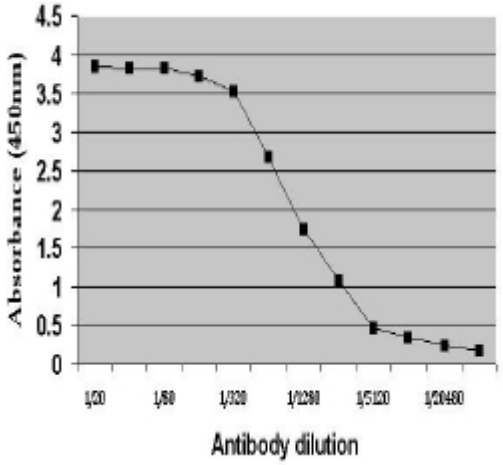

Figure 1. c-Myc tagged protein detected with Mouse anti c-Myc:Alk Phos (SM1863AP).