Qty: 200 µg/400 µl
Mouse anti-c-Myc
Catalog No. 13-2500
Lot No.

Mouse anti-c-Myc

FORM
This monoclonal antibody is highly purified from Balb/C mouse ascites by Protein-A affinity chromatography. It is supplied as a 400 µl aliquot at a concentration of 0.5 mg/ml in phosphate buffered saline, pH 7.4, containing 0.1% sodium azide.

CLONE: 9E10 **ISOTYPE:** IgG_1-kappa

IMMUNOGEN
A 32 amino acid synthetic peptide (aa 408-439) derived from the C-terminus of the human c-myc protein.[1]

SPECIFICITY
This antibody reacts specifically to the synthetic peptide representing residues 410-419 on human c-myc protein. 9E10 can be used to detect c-myc tagged proteins and the native protein derived from the c-myc proto-oncogene.

REACTIVITY
This monoclonal antibody reacts with the human c-myc proteins (human c-myc migrates to approximately 65 kDa under reducing conditions on SDS-PAGE) and c-myc-tagged fusion proteins. Due to the homology between human and mouse, this antibody may be weakly reactive with mouse c-myc.

USAGE
The concentrations below are only starting recommendations. Optimal concentrations of this antibody should be determined by the investigator for each specific application.

Western Blotting[4-5]:	1 µg/ml
ELISA[6]:	0.1-1 µg/ml
Immunoprecipitation:	2-5 µg/IP
Immunofluorescence:	2-10 µg/ml
IHC (paraffin-embedded tissue*) [2]:	2-10 µg/ml
Electrophoretic Mobility-Shift Assay[5]	

* Staining of Formalin-fixed, paraffin embedded sections requires a Heat Induced Epitope Retrieval (HIER) step prior to staining. Call or check Zymed's web site for details.

STORAGE
Store at 2-8°C for up to one month. Store at –20°C for long term storage. Avoid repeated freezing and thawing.

BACKGROUND[1-3]
The c-myc gene is the cellular homologue of the v-myc gene originally isolated from an avian myelocytomatosis virus. Expression is related to the cell cycle, and the c-myc protein is located in the nucleus. The c-myc gene is a proto-oncogene. In human cell lines and neoplasms, abnormal c-myc expression can take many forms including transduction, insertional activation, translocation and amplification. It has been reported that c-myc protein is over-expressed in some breast cancers. The clinical significance of c-myc amplification in human tumors is still not clear.

(cont'd)

REFERENCES

1. Evan GI, et al : *Molecular and Cellular Biology* 5:3610 (1985).
2. Royds JA, et al: *J Pathol* 166:225 (1992).
3. Locker AP, et al: *Br J Cancer* 60: 669 (1989).
4. Timson Gauen, L.K. et al; *J. Cell Biol.* 133(5):1007-1015 (1996).
5. Vindevoghel, L., et a;; *Proc. Natl. Acad. Sci.* 95:14769-14774 (1998).
6. Mohlke, K.L., et al; *Cell* 96:111-120 (1999).

RELATED PRODUCTS

Product	***Conjugate***	***Cat. No.***
Goat anti-Mouse IgG (H+L)	purified	81-6500
(ZyMAX™ Grade)	FITC	81-6511
	TRITC	81-6514
	Cy™3	81-6515
	Cy™5	81-6516
	HRP	81-6520
	AP	81-6522
	Biotin	81-6540
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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