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Product Data Sheet

Purified anti-c-Myc

Catalog # / Size: 626801 / 25 µg
626802 / 100 µg

Clone: 9E10

Isotype: Mouse IgG1, κ

Immunogen: amino acids 408-439, C-terminal region of human c-myc

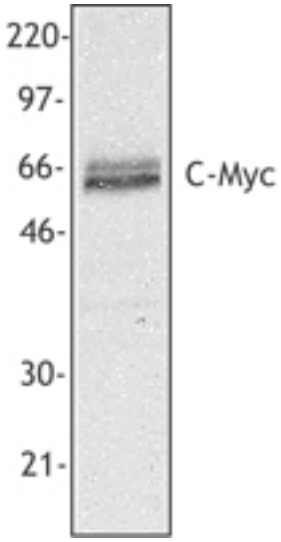
Reactivity: Human and fusion proteins in all species

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store undiluted at 4°C.



Jurkat extract was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-c-myc monoclonal antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system. Intact (non-degraded) c-myc with a molecular weight of approximately 62 kD is detected in this Western blot experiment.

Applications:

Applications: WB - *Quality tested*
ELISA, IF, IP, IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 5 µg per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry[5] of formalin-fixed, paraffin-embedded tissue sections, ELISA[1], immunofluorescence microscopy[3,4], immunoprecipitation[4], and immunoaffinity of c-myc-tagged fusion proteins[6].

Application References:

1. Schouten A, *et al.* 2002. *J. Biol. Chem.* 277:19339. (ELISA)
2. Maher SE, *et al.* 1998. *Transplantation* 66:1094.
3. Raftopoulou M, *et al.* 2004. *Science* 303:1179. (IF)
4. Fan H, *et al.* 1998. *Biochem. Cell. Biol.* 76:125. (IF, IP)
5. Korkolopoulou P, *et al.* 1994. *Leuk Lymphoma* 13:151. (IHC)
6. Hillman MC, *et al.* 2001. *Protein Expr. Purif.* 23:359.
7. Kondo, S., *et al.* 2011. *J. Virol.* 85:11255. PubMed.
8. Decarpentrie F, *et al.* 2012. *Hum Mol Genet.* PubMed.
9. Bourgeois-Daigneault MC, *et al.* 2012. *J Immunol.* 188:4959. PubMed.
10. Peters BM, *et al.* 2012. *Microbiology.* 158:2975. PubMed.
11. Robu M, *et al.* 2013. *PNAS.* PubMed.
12. Eilert E, *et al.* 2013. *J Biotechnol.* PubMed.

Description: The c-myc protein is a 62 kD nuclear factor that is ubiquitously expressed in the nucleus. c-myc is part of a heterodimeric complex with MAX that acts as a potent transcriptional activator. c-myc is modified by glycosylation and phosphorylation and has been shown to interact with a number of proteins including SMAD2, SMAD3, Pam, cdc6, BRCA1, Mlh1, p34cdc2, MAD, and Sp1. c-myc is extremely labile and is degraded very quickly even in extracts prepared with boiling SDS sample buffer, such that the observed protein size is approximately 41 kD. The 9E10 monoclonal antibody recognizes human myc and the 10 amino acid epitope tag of human c-myc. The 9E10 antibody has been shown to be useful in a number of applications including Western blotting, direct ELISA, flow cytometry, immunoprecipitation, immunofluorescence, immunohistochemistry (paraffin), and immunoaffinity purification of proteins expressing the human c-myc tag.

Antigen References:

1. Adams JM, *et al.* 1983. *Proc. Natl. Acad. Sci. USA* 80:1982.
2. Atchley WR, *et al.* 1995. *Proc. Natl. Acad. Sci. USA* 92:10217.
3. Battey J, *et al.* 1983. *Cell* 34:779.
4. Beimling P, *et al.* 1985. *Biochemistry* 24:6349.

Related Products:

Product	Clone	Application
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC

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