

c-Myc (D84C12) Rabbit mAb (Alexa Fluor® 488 Conjugate)

100 µl (50 tests)

www.cellsignal.com

Support: 877-678-TECH (8324)
www.cellsignal.com/support

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Entrez-Gene ID #4609
UniProt ID #P01106

rev. 12/03/14

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications

F
Endogenous

Species Cross-Reactivity*

H, M, R, (Dg, Pg)

Isotype

Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated c-Myc (D84C12) Rabbit mAb #5605.

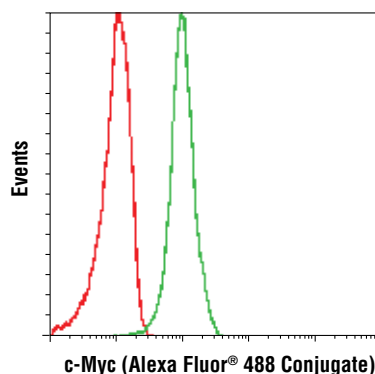
Background: Members of the Myc/Max/Mad network function as transcriptional regulators with roles in various aspects of cell behavior including proliferation, differentiation and apoptosis (1). These proteins share a common basic-helix-loop-helix leucine zipper (bHLH-ZIP) motif required for dimerization and DNA-binding. Max was originally discovered based on its ability to associate with c-Myc and found to be required for the ability of Myc to bind DNA and activate transcription (2). Subsequently, Max has been viewed as a central component of the transcriptional network, forming homodimers as well as heterodimers with other members of the Myc and Mad families (1). The association between Max and either Myc or Mad can have opposing effects on transcriptional regulation and cell behavior (1). The Mad family consists of four related proteins; Mad1, Mad2 (Mxi1), Mad3 and Mad4, and the more distantly related members of the bHLH-ZIP family, Mnt and Mga. Like Myc, the Mad proteins are tightly regulated with short half-lives. In general, Mad family members interfere with Myc-mediated processes such as proliferation, transformation and prevention of apoptosis by inhibiting transcription (3,4).

Specificity/Sensitivity: c-Myc (D84C12) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total c-Myc protein. This antibody is not recommended for detection of Myc-tagged fusion proteins; for detection of Myc-tagged fusion proteins use Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 488 Conjugate) #2279.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues of c-Myc.

Background References:

- (1) Baudino, T.A. and Cleveland, J.L. (2001) *Mol Cell Biol* 21, 691-702.
- (2) Blackwood, E.M. and Eisenman, R.N. (1991) *Science* 251, 1211-7.
- (3) Henriksson, M. and Lüscher, B. (1996) *Adv Cancer Res* 68, 109-82.
- (4) Grandori, C. et al. (2000) *Annu Rev Cell Dev Biol* 16, 653-99.



Flow cytometric analysis of Jurkat cells using c-Myc (D84C12) Rabbit mAb (Alexa Fluor® 488 Conjugate) (green) compared to concentration matched Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 488 Conjugate) #2975 (red).

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Flow Cytometry

1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, including use with HCS or other automated imaging applications but excluding use in combination with DNA microarrays. The buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. Alexa Fluor® is a registered trademark of Life Technologies Corporation.

Thank you for your recent purchase. If you would like to provide a review visit www.cellsignal.com/comments.

