

c-Myb (D2R4Y) Rabbit mAb



✓ 100 µl
(10 western blots)

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

Entrez-Gene ID #4602
Swiss-Prot Acc. #P10242

Applications W, IP Endogenous	Species Cross-Reactivity* H, (M)	Molecular Wt. 80 kDa	Isotype Rabbit IgG**
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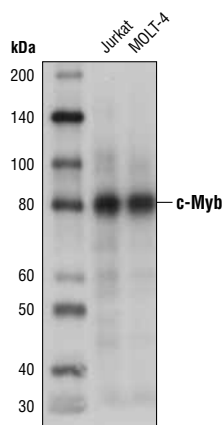
Background: c-Myb is a transcriptional activator that specifically recognizes the sequence 5'-YAAC[GT]G-3'. It is expressed in hematopoietic progenitor cells where it plays an important role in the control of proliferation and differentiation (1-3). c-Myb is required for transcription of genes involved in self-renewal of intestinal stem cells. Importantly, c-Myb regulates expression of Lgr5, a protein expressed in putative intestinal stem cells that give rise to all cell lineages of small intestinal crypts (4). c-Myb is reported to be expressed in colon crypt cells and in human colorectal cancer lines (5,6). Research has shown that c-Myb gene translocations and copy number alterations are found in several leukemias, breast cancer, and other solid tumors (7,8).

Specificity/Sensitivity: c-Myb (D2R4Y) Rabbit mAb recognizes endogenous levels of total c-Myb protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human c-Myb protein.

Background References:

- (1) Lin, H.H. et al. (1996) *Curr Top Microbiol Immunol* 211, 79-87.
- (2) Mucenski, M.L. et al. (1991) *Cell* 65, 677-89.
- (3) Badiani, P. et al. (1994) *Genes Dev* 8, 770-82.
- (4) Cheasley, D. et al. (2011) *Stem Cells* 29, 2042-50.
- (5) Thompson, M.A. et al. (1998) *Cancer Res* 58, 5168-75.
- (6) Wilkins, H.R. et al. (2010) *Tumour Biol* 31, 16-22.
- (7) Ramsay, R.G. and Gonda, T.J. (2008) *Nat Rev Cancer* 8, 523-34.
- (8) Stenman, G. et al. (2010) *Cell Cycle* 9, 2986-95.



Western blot analysis of extracts from Jurkat and MOLT-4 cells using c-Myb (D2R4Y) Rabbit mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:100

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.