

#12319 Store at -20°C

**c-Myb (D2R4Y) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	80	Rabbit IgG	#P10242	4602

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation**Dilution**1:1000  
1:100**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.

**Specificity / Sensitivity**

c-Myb (D2R4Y) Rabbit mAb recognizes endogenous levels of total c-Myb protein.

**Species predicted to react based on 100% sequence homology:**

Mouse

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His37 of human c-Myb protein.

**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).

**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.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

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

**Applications Key****WB:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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