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## c-Myb (D1B9E) Rabbit mAb (PE Conjugate)



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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P10242	<b>Entrez-Gene Id:</b> 4602
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	c-Myb (D1B9E) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total c-Myb protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human c-Myb protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated c-Myb (D1B9E) Rabbit mAb #59995.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Lin, H.H. et al. (1996) <i>Curr Top Microbiol Immunol</i> 211, 79-87.</li> <li>2. Mucenski, M.L. et al. (1991) <i>Cell</i> 65, 677-89.</li> <li>3. Badiani, P. et al. (1994) <i>Genes Dev</i> 8, 770-82.</li> <li>4. Cheasley, D. et al. (2011) <i>Stem Cells</i> 29, 2042-50.</li> <li>5. Thompson, M.A. et al. (1998) <i>Cancer Res</i> 58, 5168-75.</li> <li>6. Wilkins, H.R. et al. (2010) <i>Tumour Biol</i> 31, 16-22.</li> <li>7. Ramsay, R.G. and Gonda, T.J. (2008) <i>Nat Rev Cancer</i> 8, 523-34.</li> <li>8. Stenman, G. et al. (2010) <i>Cell Cycle</i> 9, 2986-95.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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