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**BCL6 (D4I2V) XP® Rabbit mAb (PE Conjugate)****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P41182	<b>Entrez-Gene Id:</b> 604
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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 antibodies. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	BCL6 (D4I2V) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of total BCL6 protein. It is predicted to detect both human BCL6 isoform 1 and isoform 2.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment spanning residues Asp210 through Thr409 of human BCL6 protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated BCL6 (D4I2V) XP® Rabbit mAb #14895.	
<b>Background</b>	Chromosomal translocations result in misregulation of the proto-oncogene <i>BCL6</i> in patients with B cell-derived non-Hodgkin's lymphoma (1). The <i>BCL6</i> gene is selectively expressed in mature B cells and encodes a nuclear phosphoprotein that belongs to the BTB/POZ zinc finger family of transcription factors (2,3). <i>BCL6</i> protein can bind to target DNA sequences of Stat6 and, analogous to Stat6, modulate the expression of interleukin-4-induced genes (4). Furthermore, <i>BCL6</i> restrains p53-dependent senescence, making <i>BCL6</i> -active tumors functionally p53-negative (5). The mitogen-activated protein kinases, Erk1 and Erk2, but not JNK, phosphorylate <i>BCL6</i> at multiple sites. Phosphorylation of <i>BCL6</i> at Ser333 and Ser343 results in degradation of <i>BCL6</i> by the ubiquitin/proteasome pathway in B cells (6,7). In addition, <i>BCL6</i> is acetylated and its transcriptional repressor function is inhibited by the transcriptional co-activator p300 (8).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Ye, B.H. et al. (1993) <i>Science</i> 262, 747-50.</li> <li>2. Onizuka, T. et al. (1995) <i>Blood</i> 86, 28-37.</li> <li>3. Zollman, S. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 10717-21.</li> <li>4. Harris, M.B. et al. (1999) <i>Mol Cell Biol</i> 19, 7264-75.</li> <li>5. Shvarts, A. et al. (2002) <i>Genes Dev</i> 16, 681-6.</li> <li>6. Moriyama, M. et al. (1997) <i>Oncogene</i> 14, 2465-74.</li> <li>7. Niu, H. et al. (1998) <i>Genes Dev</i> 12, 1953-61.</li> <li>8. Bereshchenko, O.R. et al. (2002) <i>Nat Genet</i> 32, 606-13.</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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