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BCL6 (D4I2V) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P41182	Entrez-Gene Id: 604
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
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.	
Specificity / Sensitivity	BCL6 (D4I2V) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total BCL6 protein. It is predicted to detect both human BCL6 isoform 1 and isoform 2.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment spanning residues Asp210 through Thr409 of human BCL6 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye 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 BCL6 (D4I2V) XP® Rabbit mAb #14895.	
Background	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).	
Background References	1. Ye, B.H. et al. (1993) <i>Science</i> 262, 747-50. 2. Onizuka, T. et al. (1995) <i>Blood</i> 86, 28-37. 3. Zollman, S. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 10717-21. 4. Harris, M.B. et al. (1999) <i>Mol Cell Biol</i> 19, 7264-75. 5. Shvarts, A. et al. (2002) <i>Genes Dev</i> 16, 681-6. 6. Moriyama, M. et al. (1997) <i>Oncogene</i> 14, 2465-74. 7. Niu, H. et al. (1998) <i>Genes Dev</i> 12, 1953-61. 8. Bereshchenko, O.R. et al. (2002) <i>Nat Genet</i> 32, 606-13.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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