

BCL6 (D4I2V) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#P41182	604

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.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor[®] 647 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 *BCL6* in patients with B cell-derived non-Hodgkin's lymphoma (1). The *BCL6* 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). BCL6 protein can bind to target DNA sequences of Stat6 and, analogous to Stat6, modulate the expression of interleukin-4-induced genes (4). Furthermore, BCL6 restrains p53-dependent senescence, making BCL6-active tumors functionally p53-negative (5). The mitogen-activated protein kinases, Erk1 and Erk2, but not JNK, phosphorylate BCL6 at multiple sites. Phosphorylation of BCL6 at Ser333 and Ser343 results in degradation of BCL6 by the ubiquitin/proteasome pathway in B cells (6,7). In addition, BCL6 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) *Science* 262, 747-50.
2. Onizuka, T. et al. (1995) *Blood* 86, 28-37.
3. Zollman, S. et al. (1994) *Proc Natl Acad Sci U S A* 91, 10717-21.
4. Harris, M.B. et al. (1999) *Mol Cell Biol* 19, 7264-75.
5. Shvarts, A. et al. (2002) *Genes Dev* 16, 681-6.
6. Moriyama, M. et al. (1997) *Oncogene* 14, 2465-74.
7. Niu, H. et al. (1998) *Genes Dev* 12, 1953-61.
8. Bereshchenko, O.R. et al. (2002) *Nat Genet* 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

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