

**BCL6 (D4I2V) XP[®] Rabbit mAb
(Biotinylated)**

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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: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W | H | Endogenous | 87-98 | Rabbit IgG | #P41182 | 604 |

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

BCL6 (D4I2V) XP[®] Rabbit mAb (Biotinylated) 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 biotin under optimal conditions. The biotinylated 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).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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