

BCL6 (D4I2V) XP[®] Rabbit mAb

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

Applications: W, W-S, IP, IF-IC, FC-FP, ChIP, ChIP-seq, C&R	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 87-98	Source/Isotype: Rabbit IgG	UniProt ID: #P41182	Entrez-Gene Id: 604
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Product Usage Information

For optimal ChIP and ChIP-seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

Application	Dilution
Western Blotting	1:1000
Simple Western™	1:10 - 1:50
Immunoprecipitation	1:200
Immunofluorescence (Immunocytochemistry)	1:50 - 1:100
Flow Cytometry (Fixed/Permeabilized)	1:800 - 1:1600
Chromatin IP	1:100
Chromatin IP-seq	1:100
CUT&RUN	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #47899.

Specificity/Sensitivity

BCL6 (D4I2V) XP[®] Rabbit mAb 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.

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 **W-S:** Simple Western™ **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:** CUT&RUN

Cross-Reactivity Key

H: Human

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