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# BCL6 Antibody

Store at -20C  
#4242

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

|                           |                           |                                   |                              |                                  |                               |                               |
|---------------------------|---------------------------|-----------------------------------|------------------------------|----------------------------------|-------------------------------|-------------------------------|
| <b>Applications:</b><br>W | <b>Reactivity:</b><br>H M | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>87 to 98 | <b>Source/Isotype:</b><br>Rabbit | <b>UniProt ID:</b><br>#P41182 | <b>Entrez-Gene Id:</b><br>604 |
|---------------------------|---------------------------|-----------------------------------|------------------------------|----------------------------------|-------------------------------|-------------------------------|

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

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

## Specificity/Sensitivity

The BCL6 Antibody detects endogenous levels of BCL6.

## Species predicted to react based on 100% sequence homology

Rat

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminal sequence of human BCL6. Antibodies are purified by protein A and peptide affinity chromatography.

## 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse

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