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#89369**BCL6 (E5I8I) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-Bond, IHC-P	H	Endogenous	90	Rabbit IgG	#P41182	604

**Product Usage Information****Application**

IHC Leica Bond  
Immunohistochemistry (Paraffin)

**Dilution**

1:200  
1:300

**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 #56263.

**Specificity/Sensitivity**

BCL6 (E5I8I) Rabbit mAb recognizes endogenous levels of total BCL6 protein. It is predicted to detect both known isoforms of human BCL6. Non-specific, non-nuclear staining was observed in human and mouse smooth muscle. Additional non-specific staining was observed in other mouse tissues.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro319 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).

**Applications Key**

**IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human

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