

🕜 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🤅 Website: www.cusabio.com 🌘

## **BCL6 Recombinant Monoclonal Antibody**

Product Code	CSB-RA131953A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P41182
Immunogen	A synthesized peptide derived from Human BCL6
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
lsotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling;Cancer
Gene Names	BCL6
Clone No.	6E3

Image



IHC image of CSB-RA131953A0HU diluted at 1:33 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.73% DAB.

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Overlay Peak curve showing Jurkat cells stained with CSB-RA131953A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific proteinprotein interactions followed by the antibody  $(1\mu g/1*10^6$ cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG  $(1\mu g/1*10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.

## Description

To produce a recombinant monoclonal antibody against BCL6, CUSABIO initiated the process by immunizing a rabbit with a synthesized peptide derived from human BCL6 protein. Following immunization, B cells were isolated from the rabbit, and RNA was extracted from these cells. The extracted RNA was reverse-transcribed into cDNA, which was used as a template to extend BCL6 antibody genes using degenerate primers. These extended BCL6 antibody genes were then incorporated into a plasmid vector and transfected into host cells for expression. Subsequently, the BCL6 recombinant monoclonal antibody was purified from the cell culture supernatant through affinity chromatography and evaluated for its suitability in ELISA, IHC, and FC applications, demonstrating specific recognition of human BCL6 protein.

BCL6 is a critical transcriptional repressor that regulates B cell development, germinal center formation, and the adaptive immune response. Its functions are essential for generating high-affinity antibodies and maintaining the balance between immune response and immune tolerance. Dysregulation of BCL6 can have significant implications for B cell lymphomagenesis and immune-related diseases.