10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

bcl-6

Mouse Monoclonal antibody(Mab)
Catalog # AD80155

Product Information

Application	IHC-P
Primary Accession	P41182
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	907E3E6
Calculated MW	78846

Additional Information

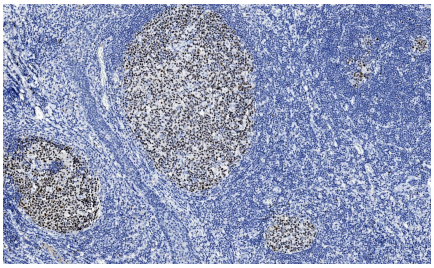
Gene ID	604
Gene Name	BCL6
Other Names	B-cell lymphoma 6 protein, BCL-6, B-cell lymphoma 5 protein, BCL-5, Protein LAZ-3, Zinc finger and BTB domain-containing protein 27, Zinc finger protein 51, BCL6, BCL5, LAZ3, ZBTB27, ZNF51
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	bcl-6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

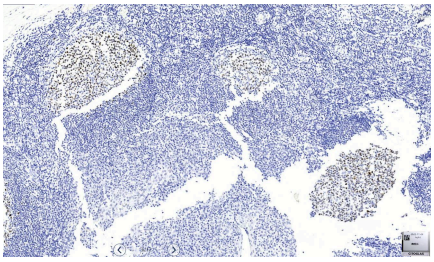
Name	BCL6
Synonyms	BCL5, LAZ3, ZBTB27, ZNF51
Function	Transcriptional repressor mainly required for germinal center (GC) formation and antibody affinity maturation which has different mechanisms of action specific to the lineage and biological functions. Forms complexes with different corepressors and histone deacetylases to repress the transcriptional expression of different subsets of target genes. Represses its target genes by binding directly to the DNA sequence 5'-TTCCTAGAA-3' (BCL6-binding site) or indirectly by repressing the transcriptional activity of transcription factors. In GC B-cells, represses genes that function in differentiation, inflammation, apoptosis and cell cycle control, also autoregulates its transcriptional expression and up-regulates, indirectly, the expression of some genes important for GC reactions, such as AICDA, through the repression of microRNAs expression, like miR155. An important function is to allow GC B-cells to proliferate very rapidly in response to T- cell dependent antigens and tolerate the physiological DNA breaks required for

	immunoglobulin class switch recombination and somatic hypermutation without inducing a p53/TP53-dependent apoptotic response. In follicular helper CD4(+) T-cells (T(FH) cells), promotes the expression of T(FH)-related genes but inhibits the differentiation of T(H)1, T(H)2 and T(H)17 cells. Also required for the establishment and maintenance of immunological memory for both T- and B-cells. Suppresses macrophage proliferation through competition with STAT5 for STAT- binding motifs binding on certain target genes, such as CCL2 and CCND2. In response to genotoxic stress, controls cell cycle arrest in GC B- cells in both p53/TP53-dependedent and -independent manners. Besides, also controls neurogenesis through the alteration of the composition of NOTCH-dependent transcriptional complexes at selective NOTCH targets, such as HES5, including the recruitment of the deacetylase SIRT1 and resulting in an epigenetic silencing leading to neuronal differentiation.
Cellular Location	Nucleus
Tissue Location	Expressed in germinal center T- and B-cells and in primary immature dendritic cells.

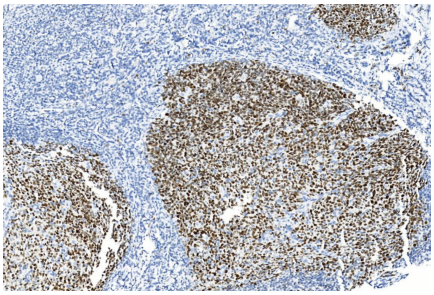
Images



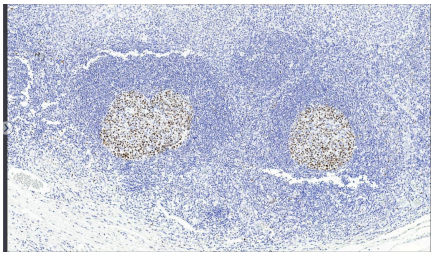
Immunohistochemical analysis of formalin-fixed and paraffin-embedded human tonsil tissue was performed with bcl-6 primary antibody, followed by peroxidase-conjugated secondary antibody and DAB staining.



Immunohistochemical analysis of formalin-fixed and paraffin-embedded human tonsil tissue was performed with bcl-6 primary antibody, followed by peroxidase-conjugated secondary antibody and DAB staining.

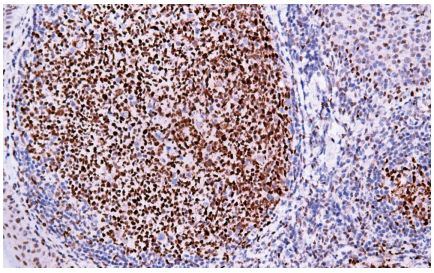


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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.