

**BCL11B**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2548a****Specification**

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**BCL11B - Product Information**

Application	<b>E, WB, ICC, IHC</b>
Primary Accession	<a href="#">O9C0K0</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>95.5kDa KDa</b>

**Immunogen**

Purified recombinant fragment of human BCL11B (AA: 1-150) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**BCL11B - Additional Information**

**Gene ID** 64919

**Other Names**

ATL1; RIT1; CTIP2; IMD49; CTIP-2; ZNF856B; ATL1-beta; ATL1-alpha; ATL1-delta; ATL1-gamma; hRIT1-alpha

**Dilution**

E~~ 1/10000  
WB~~ 1/500 - 1/2000  
ICC~~ 1/50 - 1/250  
IHC~~ 1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BCL11B is for research use only and not for use in diagnostic or therapeutic procedures.

**BCL11B - Protein Information**

**Name** BCL11B

**Synonyms** CTIP2, RIT1

**Function**

Key regulator of both differentiation and survival of T- lymphocytes during thymocyte development in mammals. Essential in controlling the responsiveness of hematopoietic stem cells to chemotactic signals by modulating the expression of the receptors CCR7 and CCR9, which direct the movement of progenitor cells from the bone marrow to the thymus (PubMed:<a href="http://www.uniprot.org/citations/27959755" target="\_blank">27959755</a>). Is a regulator of IL2 promoter and enhances IL2 expression in activated CD4(+) T-lymphocytes (PubMed:<a href="http://www.uniprot.org/citations/16809611" target="\_blank">16809611</a>). Tumor-suppressor that represses transcription through direct, TFCOUP2-independent binding to a GC-rich response element (By similarity). May also function in the P53-signaling pathway (By similarity).

**Cellular Location**

Nucleus.

**Tissue Location**

Highly expressed in brain and in malignant T-cell lines derived from patients with adult T-cell leukemia/lymphoma

**BCL11B - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**BCL11B - Images**

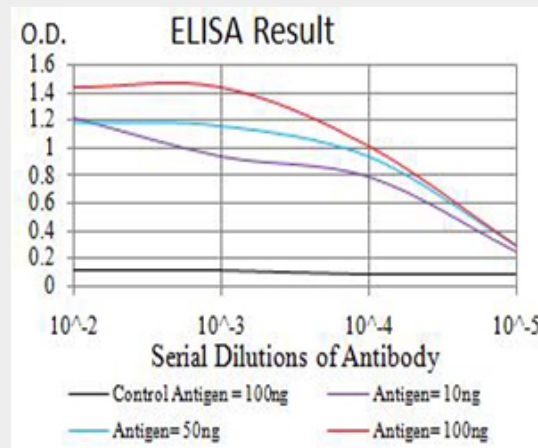


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

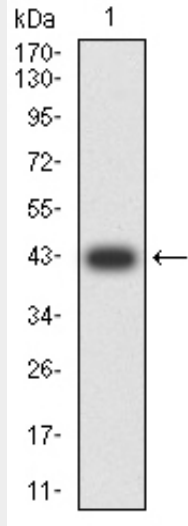


Figure 2: Western blot analysis using BCL11B mAb against human BCL11B (AA: 1-150) recombinant protein. (Expected MW is 42.3 kDa)

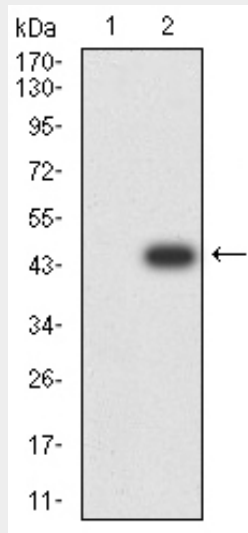


Figure 3: Western blot analysis using BCL11B mAb against HEK293 (1) and BCL11B (AA: 1-150)-hlgGfc transfected HEK293 (2) cell lysate.

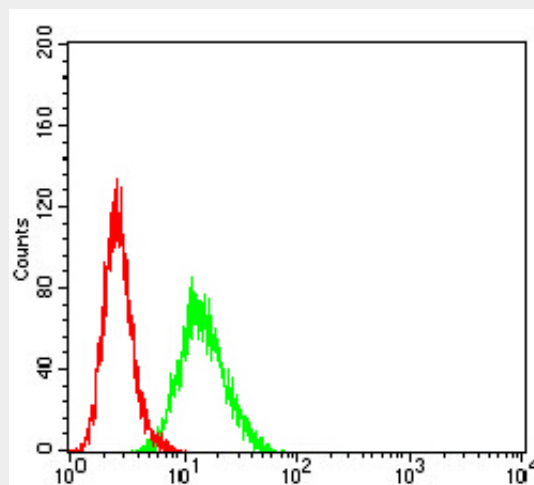


Figure 5: Flow cytometric analysis of HeLa cells using BCL11B mouse mAb (green) and negative

control (red).

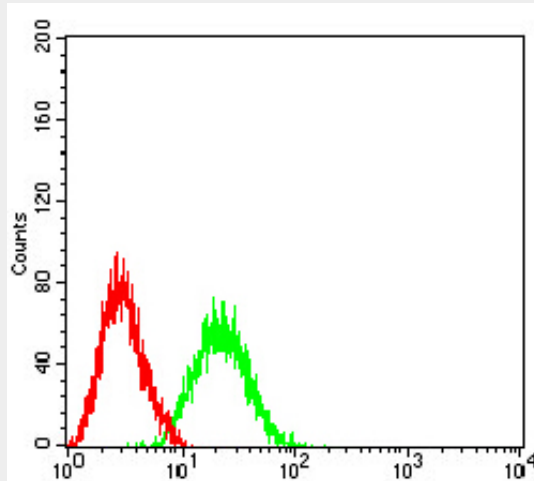


Figure 6:Flow cytometric analysis of Jurkat cells using BCL11B mouse mAb (green) and negative control (red).

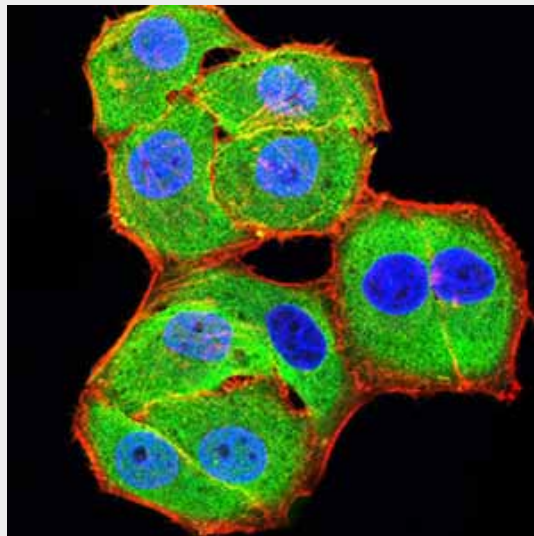


Figure 4:Immunofluorescence analysis of HeLa cells using BCL11B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

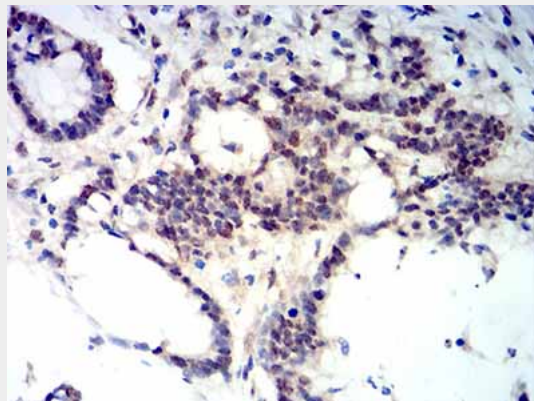


Figure 7:Immunohistochemical analysis of paraffin-embedded colon cancer tissues using BCL11B mouse mAb with DAB staining.

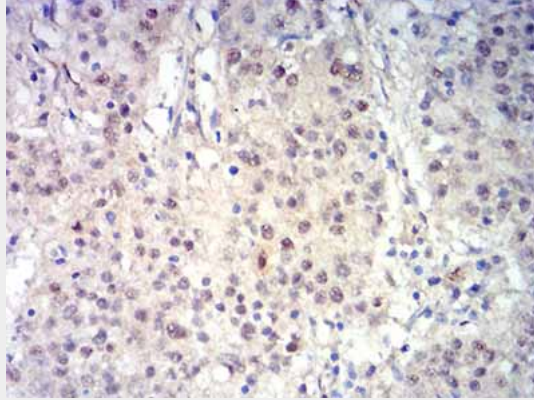


Figure 8: Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using BCL11B mouse mAb with DAB staining.

#### **BCL11B - References**

1. J Immunol. 2014 Sep 1;193(5):2059-65.
2. PLoS One. 2013;8(1):e55147.