**CONTACT INFORMATION:** LRF Haemato-oncology Group. University of Oxford

**STATUS:** Validated

**TYPE:** mouse anti human

**CLONE NAME:** BCL11A/123

**PROTEIN:** C-terminus of extra long isoform of BCL11A, BCL11AXL (aa 637-835)


**ANTIGEN USED:** Bacterially expressed GST-fusion protein of human BCL11AXL

**FUSION PARTNER:** NS1

**ISOTYPE:** IgG1

**SPECIES REACTIVITY:** Human

**PREPARATION AND STORAGE:** Aliquot and store at 4°C. Do not freeze.

**APP RECOMMENDED:** IHQ-paraffin, IHQ-frozen, WB

**APP NO TESTED:** IF, IP, Flow cytometry

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**DESCRIPTION**

BCL11A is a Krüppel zinc-finger transcription factor identified originally from a chromosome translocation in aggressive B-cell chronic lymphocytic leukaemia. The gene may function as both an oncogene and a tumour suppressor. Alternative splicing generates multiple isoforms, the BCL11AXL being the largest and most abundant transcript. The protein is differentially expressed during B-cell development and is strongly expressed in plasmacytoid dendritic cells. The BCL11A/123 antibody specifically recognises the extra long form of the protein and not the long or short forms of BCL11A. The BCL11A/123 antibody is not cross reactive with the long form of the BCL11B protein that shares significant sequence identity with the immunogen.

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**REFERENCES**


## APPLICATIONS

<table>
<thead>
<tr>
<th>IHC Techniques</th>
<th>Clone</th>
<th>Dilution</th>
<th>Antibody concentration</th>
<th>Antigen retrieval method</th>
<th>Visualization kit</th>
<th>Positive control</th>
<th>Negative control</th>
<th>Protein localization</th>
<th>Positivity in other species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen tissue and cytospins</td>
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<td>Recommended</td>
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<td>supernatant</td>
<td>Dako Envision</td>
<td>Tonsil</td>
<td>COS1</td>
<td>Nucleus</td>
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<td>Paraffin tissue</td>
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<td>Tonsil</td>
<td>COS1</td>
<td>Nucleus</td>
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</table>

**Immunofluorescence**
Immunolabelling of BCL11AXL transfected COS1 cells
Nuclear staining of frozen COS/ BCL11AXL transfectants but not BCL11AL transfectants using antibody BCL11A/123.
**Tonsil staining of BCL11AXL with BCL11A/123**

BCL11AXL is present in tonsillar B cells (brown) in germinal centres and mantle zones. Double labelling studies show the strongly labelled cells in the interfollicular areas to be CD123-positive plasmacytoid dendritic cells (arrowhead).

<table>
<thead>
<tr>
<th>WB Techniques</th>
<th>Clone</th>
<th>Dilution</th>
<th>Antibody concentration</th>
<th>Positive control</th>
<th>Negative control</th>
<th>Expected MW</th>
<th>Observed Mw</th>
<th>Positivity in other species</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Western Blotting</strong></td>
<td></td>
<td></td>
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<td>Recommended</td>
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<td>tonsil</td>
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<td>91kDa</td>
<td>approx 120kDa</td>
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<td><strong>Immunoprecipitation</strong></td>
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</table>
Western blotting of BCL11 transfectants

Western Blotting characterization of BCL11A/123 monoclonal antibody with lysates of transfectants expressing different BCL11A isoforms and the highly homologous BCL11B protein. Shows specificity of the BCL11A/123 antibody for the detection of BCL11AXL.