

Anti-Bcl10 Antibody Picoband™

Catalog Number: PB9525

About BCL10

BCL10, B-cell CLL/lymphoma 10, gene was identified by its translocation in a case of mucosa-associated lymphoid tissue (MALT) lymphoma. The BCL10 gene is mapped to chromosome 1p22. The protein encoded by this gene contains a caspase recruitment domain (CARD), and has been shown to induce apoptosis and to activate NF-kappaB. This protein is reported to interact with other CARD domain containing proteins including CARD9, 10, 11 and 14, which are thought to function as upstream regulators in NF-kappaB signaling. And this protein is found to form a complex with MALT1, a protein encoded by another gene known to be translocated in MALT lymphoma. MALT1 and this protein are thought to synergize in the activation of NF-kappaB, and the deregulation of either of them may contribute to the same pathogenetic process that leads to the malignancy.

Overview

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| Product Name | Anti-Bcl10 Antibody Picoband™ |
| Reactive Species | Human |
| Description | Boster Bio Anti-Bcl10 Antibody Picoband™ catalog # PB9525. Tested in IHC, WB applications. This antibody reacts with Human. |
| Application | IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | O95999 |

Technical Details

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| Immunogen | E.coli-derived human Bcl10 recombinant protein (Position: M1-Q233). Human Bcl10 shares 91% and 91.4% amino acid (aa) sequence identity with mouse and rat Bcl10, respectively. |
| Predicted Reactive Species | Hamster |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |

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| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human</p> |

Anti-Bcl10 Antibody Picoband™ (PB9525) Images

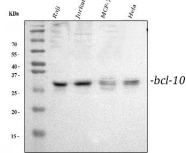


Figure 1. Western blot analysis of Bcl10 using anti-Bcl10 antibody (PB9525).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Raji whole cell lysates,

Lane 2: human Jurkat whole cell lysates,

Lane 3: human MCF-7 whole cell lysates,

Lane 4: human Hela whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Bcl10 antigen affinity purified polyclonal antibody (Catalog # PB9525) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Bcl10 at approximately 28 kDa. The expected band size for Bcl10 is at 26 kDa.

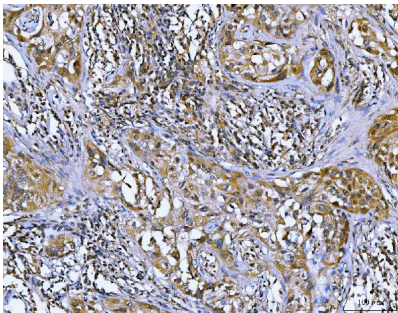


Figure 2. IHC analysis of Bcl10 using anti-Bcl10 antibody (PB9525).

Bcl10 was detected in a paraffin-embedded section of human lymph node carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Bcl10 Antibody (PB9525) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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