BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-B MyB/MYBL2 Antibody Picoband®

Catalog Number: PA1928

About MYBL2

MYBL2 (V-MYB avian myeloblastosis viral oncogene homolog-like 2), also called MYB-RELATED GENE BMYB, is a protein that in humans is encoded by the MYBL2 gene. The protein encoded by this gene, a member of the MYB family of transcription factor genes, is a nuclear protein involved in cell cycle progression. Barletta et al. (1991) assigned the MYBL2 gene to chromosome Xq13. However, Noben-Trauth et al. (1996) demonstrated that this assignment was an error. Using mouse Mybl2 cDNA clones as probes, they assigned Mybl2 in an interspecific backcross panel to distal mouse chromosome 2. Using human cDNA probes in combination with fluorescence in situ hybridization analysis, they localized MYBL2 to chromosome 20q13.1, a region that is commonly deleted in myeloid disorders and shows high homology of synteny to mouse chromosome 2. It has been shown to activate the cell division cycle 2, cyclin D1, and insulin-like growth factor-binding protein 5 genes. Transcript variants may exist for this gene, but their full-length natures have not been determined.

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Overview

Product Name	Anti-B MyB/MYBL2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-B MyB/MYBL2 Antibody catalog # PA1928. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
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	P10244

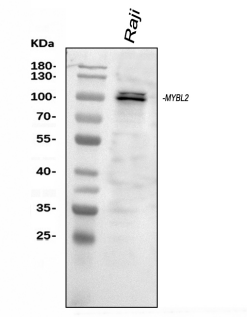
Technical Details

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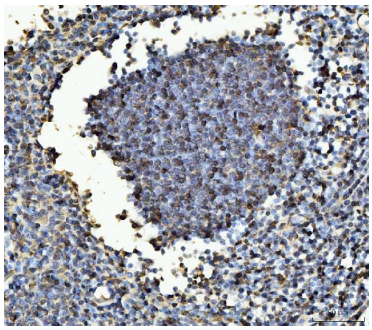
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human B MyB, identical to the related mouse sequence and different from the related rat sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) 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
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat

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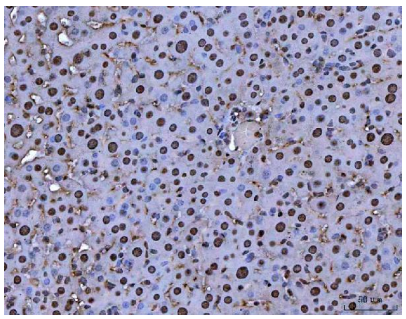
Anti-B MyB/MYBL2 Antibody Picoband® (PA1928) Images



Western blot analysis of MYBL2 using anti-MYBL2 antibody (PA1928). 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. 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-MYBL2 antigen affinity purified polyclonal antibody (Catalog # PA1928) 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 MYBL2 at approximately 100 kDa. The expected band size for MYBL2 is at 79 kDa.



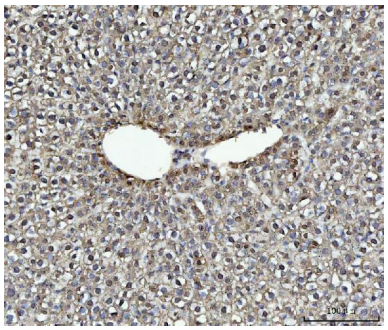
IHC analysis of MYBL2 using anti-MYBL2 antibody (PA1928). MYBL2 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MYBL2 Antibody (PA1928) 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.



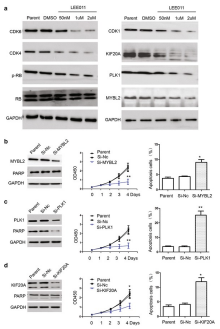
IHC analysis of MYBL2 using anti-MYBL2 antibody (PA1928). MYBL2 was detected in a paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MYBL2 Antibody (PA1928) 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.

IHC analysis of MYBL2 using anti-MYBL2 antibody (PA1928). MYBL2 was detected in a paraffin-embedded section of rat liver 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

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section was then incubated with 2 ug/ml rabbit anti-MYBL2 Antibody (PA1928) 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.



Molecular mechanism analysis of cellular senescence induced by LEE011 in leukemia cells. a Dysregulated genes, KIF20A and MYBL2, identified from gene arrays were confirmed by western blot analysis. b RNA interference of MYBL2 significantly down regulates the expression of MYBL2 in HL-60 cells. Proliferation analysis of Si-MYBL2 at 4 days showed an OD450 value of 0.79 ± 0.29 vs. Si-Nc 2.43 ± 0.43, P < 0.01. Apoptosis analysis showed Si-MYBL2 was 9.06 ± 1.62% vs. Si-Nc 4.36 ± 0.31%, P = 0.034. c RNA interference significantly downregulates the expression of PLK1 in HL-60 cells. Proliferation analysis of Si-MYBL2 at 4 days showed an OD450 value of 0.67 ± 0.29 vs. Si-Nc 2.43 ± 0.43, P < 0.01. Apoptosis analysis showed Si-MYBL2 was 25.26 ± 4.91% vs. Si-Nc 3.67 ± 0.89%, P < 0.01. d RNA interference significantly downregulates the expression of KIF20A in HL-60 cells. Proliferation analysis of Si-MYBL2 at 4 days showed an OD450 value of 1.13 ± 0.39 vs. Si-Nc 2.43 ± 0.43, P < 0.05. Apoptosis analysis showed Si-MYBL2 was 11.9 ± 2.35% vs. Si-Nc 4.13 ± 0.81%, P = 0.02. *P < 0.05; **P < 0.01Source: Yan-Fang Tao et al. Licensed under CC BY 4.0. PMID: 28286417

1 Publications Citing This Product

1. PubMed ID: 28286417, Molecular mechanism of G1 arrest and cellular senescence induced by LEE011, a novel CDK4/CDK6 inhibitor, in leukemia cells

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Anti-B MyB/MYBL2 Antibody

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