

Anti-c-Myc/MYC Antibody Picoband®

Catalog Number: A00026-1

About MYC

MYC proto-oncogene, bHLH transcription factor is a protein that in humans is encoded by the MYC gene which is a member of the myc family of transcription factors. The protein contains basic helix-loop-helix (bHLH) structural motif. This gene is a proto-oncogene and encodes a nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. The encoded protein forms a heterodimer with the related transcription factor MAX. This complex binds to the E box DNA consensus sequence and regulates the transcription of specific target genes. Amplification of this gene is frequently observed in numerous human cancers. Translocations involving this gene are associated with Burkitt lymphoma and multiple myeloma in human patients. There is evidence to show that translation initiates both from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site, resulting in the production of two isoforms with distinct N-termini.

Overview

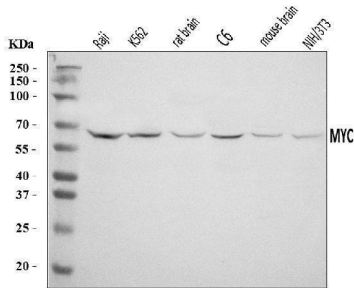
Product Name	Anti-c-Myc/MYC Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-c-Myc/MYC Antibody Picoband® catalog # A00026-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P01106

Technical Details

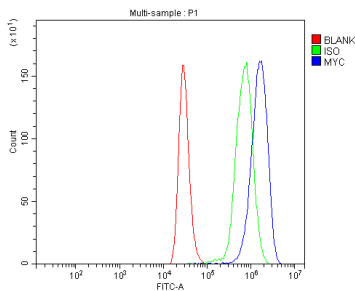
Immunogen	E.coli-derived human c-Myc/MYC recombinant protein (Position: N9-A439).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

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, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human ELISA, 0.1-0.5 ug/ml, -

Anti-c-Myc/MYC Antibody Picoband® (A00026-1) Images



Western blot analysis of C-Myc/MYC using anti-C-Myc/MYC antibody (A00026-1). 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 K562 whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse NIH/3T3 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-C-Myc/MYC antigen affinity purified polyclonal antibody (Catalog # A00026-1) 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 C-Myc/MYC at approximately 65 kDa. The expected band size for C-Myc/MYC is at 65 kDa.



Flow Cytometry analysis of THP-1 cells using anti-C-Myc/MYC antibody (A00026-1). Overlay histogram showing THP-1 cells stained with A00026-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-C-Myc/MYC Antibody (A00026-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

4 Publications Citing This Product

1. PubMed ID: 10.1016/j.tiv.2016.12.016, Alterations in transcription and protein expressions of HCC-related genes in HepG2 cells caused by microcystin-LR
2. PubMed ID: 10.1080/07357900701788130, Suppression of C-myc Expression Associates with Anti-Proliferation of Aloe-Emodin on Gastric Cancer Cells
3. PubMed ID: 24194897, Li M, Tian L, Wang L, Yao H, Zhang J, Lu J, Sun Y, Gao X, Xiao H, Liu M. Plos One. 2013 Oct 23;8(10):E77829. Doi: 10.1371/Journal.Pone.0077829. Ecollection 2013. Down-Regulation Of Mir-129-5P Inhibits Growth And Induces Apoptosis In Laryngeal Squa...

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