

Anti-YB1/Ybx1 Antibody Picoband®

Catalog Number: A01054-1

About Ybx1

Y box binding protein 1 also known as Y-box transcription factor or nuclease-sensitive element-binding protein 1 is a protein that in humans is encoded by the YBX1 gene. Enables chromatin binding activity; mRNA binding activity; and single-stranded DNA binding activity. Involved in epidermis development and negative regulation of cellular senescence. Acts upstream of or within several processes, including cellular response to interleukin-7; negative regulation of striated muscle cell differentiation; and negative regulation of transcription by RNA polymerase II. Located in cytoplasm and nucleus. Part of histone pre-mRNA 3'end processing complex. Is expressed in several structures, including branchial arch; central nervous system; facial prominence; gonad; and retina. Orthologous to human YBX1 (Y-box binding protein 1).

Overview

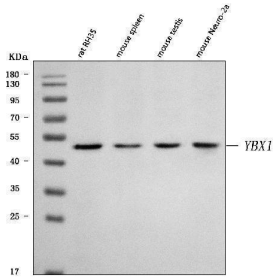
Product Name	Anti-YB1/Ybx1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-YB1/Ybx1 Antibody Picoband® catalog # A01054-1. Tested in Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	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	P62960

Technical Details

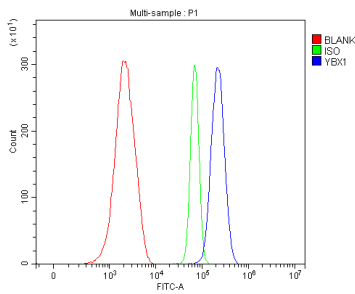
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse YB1/Ybx1, identical to the related rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Mouse

Anti-YB1/Ybx1 Antibody Picoband® (A01054-1) Images



Western blot analysis of YB1/Ybx1 using anti-YB1/Ybx1 antibody (A01054-1). 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: rat RH-35 whole cell lysates, Lane 2: mouse spleen tissue lysates, Lane 3: mouse testis tissue lysates, Lane 4: mouse Neuro-2a 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-YB1/Ybx1 antigen affinity purified polyclonal antibody (Catalog # A01054-1) 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 YB1/Ybx1 at approximately 50 kDa. The expected band size for YB1/Ybx1 is at 36 kDa.



Flow Cytometry analysis of ANA-1 cells using anti-YB1/Ybx1 antibody (A01054-1). Overlay histogram showing ANA-1 cells stained with A01054-1 (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-YB1/Ybx1 Antibody (A01054-1, 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.

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