

Anti-Bim/Bcl2l11 Antibody Picoband™

Catalog Number: A01552-5

About Bcl2l11

Bcl-2-like protein 11, commonly called BIM (Bcl-2 Interacting Mediator of cell death), is a protein that in humans is encoded by the BCL2L11 gene. BCL2 is a prototypic mammalian regulator of cell death. Certain members of the BCL2 family inhibit apoptosis, while other members facilitate this physiologic process of cell death. By screening a cDNA expression library using recombinant BCL2 as bait, O'Connor et al. isolated a small novel protein, which they referred to as BIM, with a 9-amino acid BH3 motif shared by most BCL2 homologs. BIM provokes apoptosis, and the BH3 region is required for BCL2 binding and for most of its cytotoxicity.

Overview

Product Name	Anti-Bim/Bcl2l11 Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-Bim/Bcl2l11 Antibody Picoband™ catalog # A01182-4. Tested in WB, FCM, ELISA applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal 1B9
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	O54918

Technical Details

Immunogen	E.coli-derived mouse Bim/Bcl2l11 recombinant protein (Position: Q18-R186). Mouse Bcl2l11 shares 86.7% and 98.8% amino acid (aa) sequence identity with human and rat Bcl2l11, respectively.
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Sheep, Xenopus, Zebrafish
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	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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 µg/ml, Mouse Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Mouse ELISA, 0.1-0.5 µg/ml, Mouse

Anti-Bim/Bcl2l11 Antibody Picoband™ (A01552-5) Images

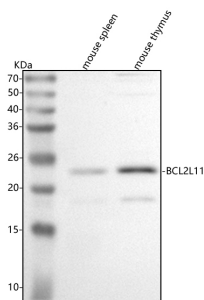


Figure 1. Western blot analysis of Bim/Bcl2l11 using anti-Bim/Bcl2l11 antibody (A01552-5).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: mouse spleen tissue lysates,
Lane 2: mouse thymus tissue 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-Bim/Bcl2l11 antigen affinity purified polyclonal antibody (Catalog # A01552-5) 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 Bim/Bcl2l11 at approximately 22 kDa. The expected band size for Bim/Bcl2l11 is at 22 kDa.

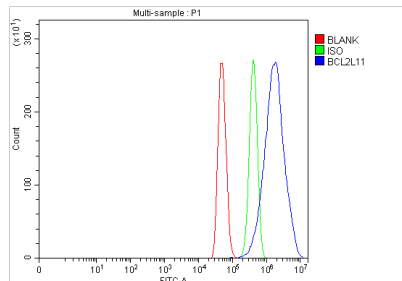


Figure 2. Flow Cytometry analysis of C2C12 cells using anti-Bim/Bcl2l11 antibody (A01552-5).
Overlay histogram showing C2C12 cells stained with A01552-5 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Bim/Bcl2l11 Antibody (A01552-5, 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 (Red line) was also used as a control.

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