BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PNN/DRSP Antibody Picoband®

Catalog Number: A01590-2

About PNN

Pinin is a protein that in humans is encoded by the PNN gene. By yeast 2-hybrid analysis of HeLa cells, followed by sequence analysis, it was found that epitope-tagged human PNN interacted with the serine/arginine (SR)-rich proteins SRP75 (SRSF4; 601940), SRM300 (SRRM2; 606032), and SRRP130 (PNISR; 616653). Truncation analysis revealed that the polyserine/RS domain of PNN and flanking sequences participated in binding to these SR proteins. The 4 proteins colocalized in the nucleus of HCE-T cells, and overexpression of any of these proteins affected the distribution of the others between nuclear speckles and nucleoplasm.

Overview

Product Name	Anti-PNN/DRSP Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PNN/DRSP Antibody Picoband® catalog # A01590-2. 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 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
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	Q9H307

Technical Details

Immunogen	E.coli-derived human PNN/DRSP recombinant protein (Position: A2-L241).
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.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.25ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human ELISA, 0.1-0.5ug/ml, -

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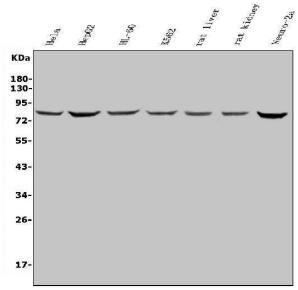
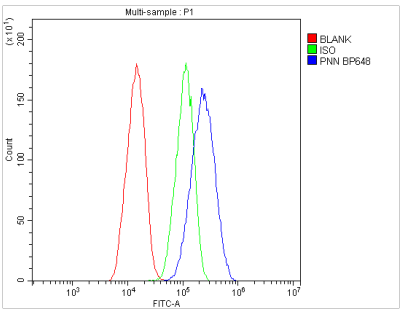
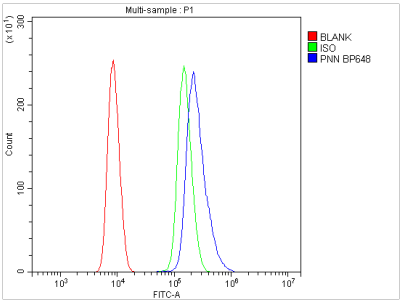
Anti-PNN/DRSP Antibody Picoband® (A01590-2) Images



Western blot analysis of PNN/DRSP using anti-PNN/DRSP antibody (A01590-2). 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 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human HL-60 whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse Neuro-2a whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PNN/DRSP antigen affinity purified polyclonal antibody (Catalog # A01590-2) at 0.25 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 PNN/DRSP at approximately 82KD. The expected band size for PNN/DRSPis at 82KD.



Flow Cytometry analysis of HepG2 cells using anti-PNN/DRSP antibody (A01590-2). Overlay histogram showing HepG2 cells stained with A01590-2 (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-PNN/DRSP Antibody (A01590-2, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Flow Cytometry analysis of HL-60 cells using anti-PNN/DRSP antibody (A01590-2). Overlay histogram showing HL-60 cells stained with A01590-2 (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-PNN/DRSP Antibody (A01590-2, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line)

was used as a blank control.

Anti-PNN/DRSP Antibody

For Research Use Only. Not for use in diagnostic procedures.