

Anti-NSUN7 Antibody Picoband®

Catalog Number: A14267

About NSUN7

Predicted to enable RNA binding activity and methyltransferase activity. Predicted to be involved in RNA methylation. Predicted to act upstream of or within flagellated sperm motility and sperm mitochondrion organization.

Overview

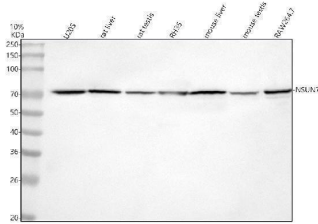
Product Name	Anti-NSUN7 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NSUN7 Antibody Picoband® catalog # A14267. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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	Q8NE18

Technical Details

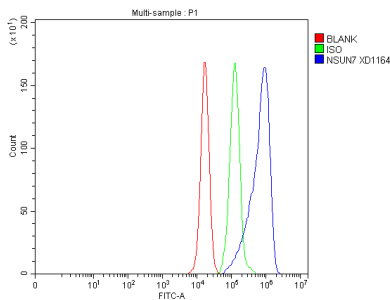
Immunogen	E.coli-derived human NSUN7 recombinant protein (Position: D83-Q457). Human NSUN7 shares 79.2% amino acid (aa) sequence identity with mouse NSUN7.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	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 ⁵ cells, Human ELISA, 0.1-0.5 ug/ml

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Anti-NSUN7 Antibody Picoband® (A14267) Images



Western blot analysis of NSUN7 using anti-NSUN7 antibody (A14267). 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 U2OS whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: rat testis tissue lysates, Lane 4: rat RH-35 whole cell lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse RAW264.7 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-NSUN7 antigen affinity purified polyclonal antibody (A14267) 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 NSUN7 at approximately 81 kDa. The expected band size for NSUN7 is at 81 kDa.



Flow Cytometry analysis of PC-3 cells using anti-NSUN7 antibody (A14267). Overlay histogram showing PC-3 cells stained with A14267 (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-NSUN7 Antibody (A14267, 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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Anti-NSUN7 Antibody

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