

Anti-67kDa Laminin Receptor/RPSA Antibody Picoband™

Catalog Number: PB10094

About RPSA

Adipose differentiation-related protein, also known as perilipin 2 (PLIN2), ADRP or adipophilin, is a protein which in humans is encoded by the ADFP gene. The protein encoded by this gene belongs to the perilipin family, members of which coat intracellular lipid storage droplets. This protein is associated with the lipid globule surface membrane material, and maybe involved in development and maintenance of adipose tissue. However, it is not restricted to adipocytes as previously thought, but is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells, and tissues, such as lactating mammary gland, adrenal cortex, Sertoli and Leydig cells, and hepatocytes in alcoholic liver cirrhosis, suggesting that it may serve as a marker of lipid accumulation in diverse cell types and diseases. Alternatively spliced transcript variants have been found for this gene.

Overview

Product Name	Anti-67kDa Laminin Receptor/RPSA Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-67kDa Laminin Receptor/RPSA Antibody Picoband™ catalog # PB10094. Tested in Flow Cytometry, IF, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, IF, IHC, IHC-F, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg 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	P08865

Technical Details

Immunogen	E. coli-derived human RPSA recombinant protein (Position: S2-S138). Human RPSA shares 100% and 99.3% amino acid (aa) sequence identity with mouse and rat RPSA, respectively.
Predicted Reactive Species	Bovine, Canine, Chicken, Hamster, Horse, Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG





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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/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, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry, 1-3ug/1x10 ⁶ cells, Human



Anti-67kDa Laminin Receptor/RPSA Antibody Picoband™ (PB10094) Images

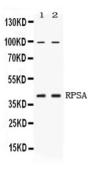


Figure 1. Western blot analysis of RPSA using anti-RPSA antibody (PB10094).

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: HELA whole cell lysates,

Lane 2: U2OS 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-RPSA antigen affinity purified polyclonal antibody (Catalog #PB10094) 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 RPSA at approximately 40 kDa. The expected band size for RPSA is at 33 kDa.

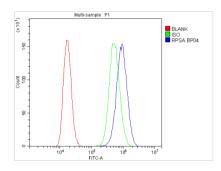


Figure 2. Flow Cytometry analysis of PC-3 cells using anti-RPSA antibody (PB10094).

Overlay histogram showing PC-3 cells stained with PB10094 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPSA Antibody (PB10094, $1ug/1x10^6$ cells) for 30 min at 20°C. DyLight 848 conjugated goat anti-rabbit IgG (BA1127, 5- $1ug/1x10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG ($1ug/1x10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

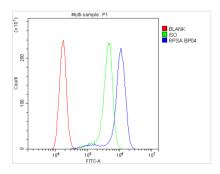


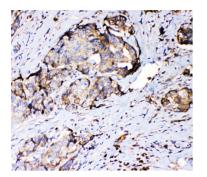
Figure 3. Flow Cytometry analysis of A431 cells using anti-RPSA antibody (PB10094).

Overlay histogram showing A431 cells stained with PB10094 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPSA Antibody (PB10094, $1ug/1x10^6$ 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 ($1ug/1x10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Figure 4. IHC analysis of RPSA using anti-RPSA antibody (PB10094).

RPSA was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with





10% goat serum. The tissue section was then incubated with lug/ml rabbit anti-RPSA Antibody (PB10094) overnight at 4°C. Biotinylated goat anti-rabbit lgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

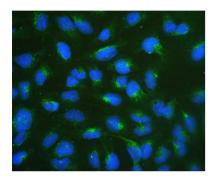


Figure 5. IF analysis of RPSA using anti-RPSA antibody (PB10094).

RPSA was detected in immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-RPSA Antibody (PB10094) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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