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antibody and ELISA experts

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Anti-RPL27 Antibody Picoband®

Catalog Number: A09736-2

About RPL27

60S ribosomal protein L27 is a protein that in humans is encoded by the RPL27 gene. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of four RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the L27e family of ribosomal proteins and a component of the 60S subunit. A splice site mutation in this gene has been identified in a Diamond-Blackfan anemia (DBA) patient. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

Overview

Product Name	Anti-RPL27 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RPL27 Antibody Picoband® catalog # A09736-2. Tested in WB, IP, FCM, 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, IP, WB
Clonality	Polyclonal
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	P61353

Technical Details

Immunogen	E.coli-derived human RPL27 recombinant protein (Position: M1-R108). Human RPL27 shares 100% amino acid (aa) sequence identity with both mouse and rat RPL27.
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.

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Suggested Dilutions	Western blot, 0.1-0.25 ug/ml, Human, Mouse, Rat Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

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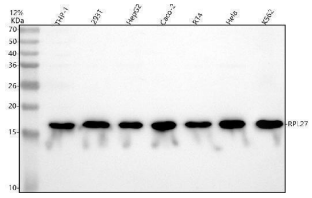
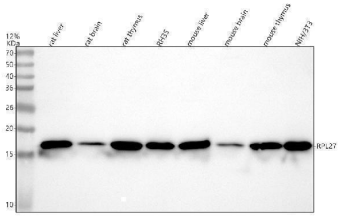
Anti-RPL27 Antibody Picoband® (A09736-2) Images



Western blot analysis of RPL27 using anti-RPL27 antibody (A09736-2). 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 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human Caco-2 whole cell lysates, Lane 5: human RT4 whole cell lysates, Lane 6: human Hela whole cell lysates, Lane 8: human K562 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-RPL27 antigen affinity purified polyclonal antibody (Catalog # A09736-2) 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 RPL27 at approximately 16 kDa. The expected band size for RPL27 is at 16 kDa.



Western blot analysis of RPL27 using anti-RPL27 antibody (A09736-2). 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 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat brain tissue lysates, Lane 3: rat thymus tissue lysates, Lane 4: rat RH35 whole cell lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse thymus tissue lysates, Lane 8: mouse NIH/3T3 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-RPL27 antigen affinity purified polyclonal antibody (Catalog # A09736-2) 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 RPL27 at approximately 16 kDa. The expected band size for RPL27 is at 16 kDa.

Flow Cytometry analysis of CACO-2 cells using anti-RPL27 antibody (A09736-2). Overlay histogram showing CACO-2 cells stained with A09736-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization

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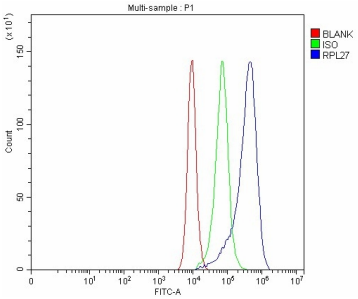
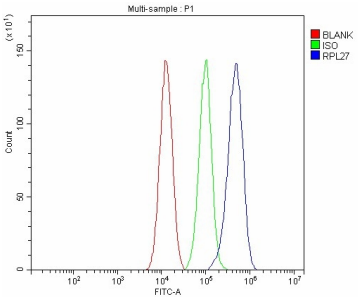
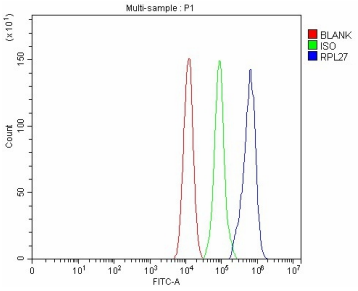


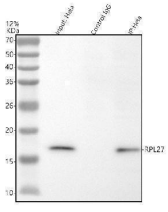
buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPL27 Antibody (A09736-2, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control 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.



Flow Cytometry analysis of NIH/3T3 cells using anti-RPL27 antibody (A09736-2). Overlay histogram showing NIH/3T3 cells stained with A09736-2 (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-RPL27 Antibody (A09736-2, 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.



Flow Cytometry analysis of RH35 cells using anti-RPL27 antibody (A09736-2). Overlay histogram showing RH35 cells stained with A09736-2 (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-RPL27 Antibody (A09736-2, 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.



Immunoprecipitating RPL27 in Hela whole cell lysate.Western blot analysis of RPL27 using anti-RPL27 antibody (A09736-2).Lane 1: Hela whole cell lysates (30ug)Lane 2: Rabbit control IgG instead of anti-RPL27 antibody in Hela whole cell lysate.Lane 3: anti-RPL27 antibody (2ug) + Hela whole cell lysate (500ug)After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-RPL27 antigen affinity purified polyclonal antibody (A09736-2) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for RPL27 at approximately 16 kDa. The expected band size for RPL27 is at 16 kDa.

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Anti-RPL27 Antibody

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