

Rabbit RPL27 Polyclonal Antibody | anti-RPL27 antibody

Anti-RPL27 Antibody Picoband

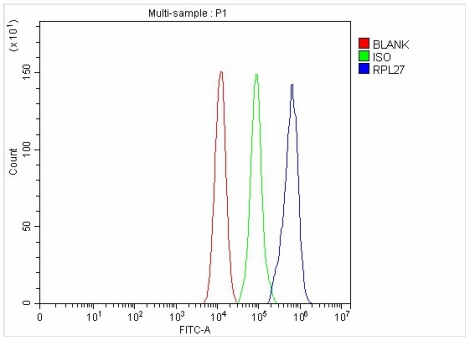
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19932	Rabbit	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RPL27; Polyclonal Antibody; Anti-RPL27 Antibody Picoband; anti-RPL27 antibody

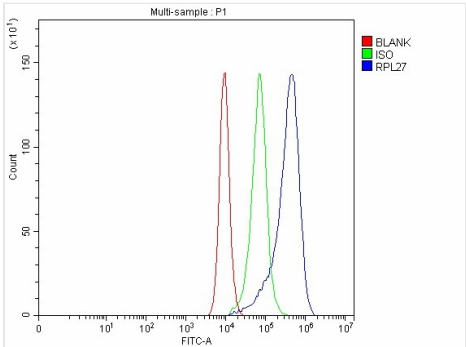
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RPL27 antibody	WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IP: 0.5-2ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human, Mouse, Rat ELISA: 0.1-0.5ug/ml
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.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



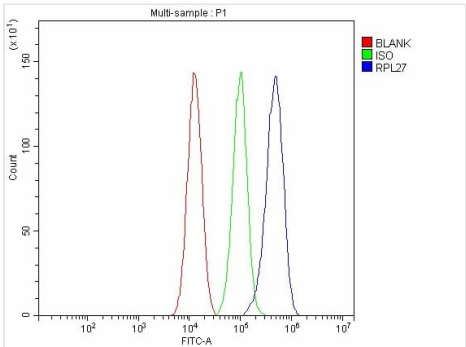
IP (Immunoprecipitation)

Figure 6. Immunoprecipitating RPL27 in HeLa whole cell lysate .Western blot analysis of RPL27 using anti-RPL27 antibody (AAA19932).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 (AAA19932) at a dilution of 0.5ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (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 (AAA19932, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree 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.



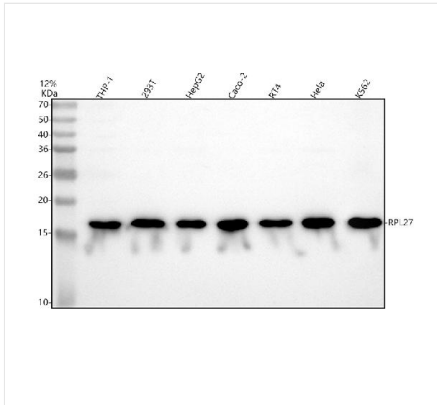
FCM (Flow Cytometry)

Figure 3. Flow Cytometry analysis of CACO-2 cells using anti-RPL27 antibody (AAA19932).Overlay histogram showing CACO-2 cells stained with AAA19932 (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 (AAA19932, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree 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.



FCM (Flow Cytometry)

Figure 4. Flow Cytometry analysis of NIH/3T3 cells using anti-RPL27 antibody (AAA19932).Overlay histogram showing NIH/3T3 cells stained with AAA19932 (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 (AAA19932, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree 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.



WB (Western Blot)

Figure 2. Western blot analysis of RPL27 using anti-RPL27 antibody (AAA19932).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 (#AAA19932) at 0.5ug/mL overnight at 4 degree 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 (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 (#AAA19932) at 0.25ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-RPL27 antibody	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.
Product Categories/Family for anti-RPL27 antibody	Primary Antibodies
References	1. Gallagher, R. A., McClean, P. M., Malik, A. N. Cloning and nucleotide sequence of a full length cDNA encoding ribosomal protein L27 from human fetal kidney. Biochim. Biophys. Acta 1217: 329-332, 1994.2. Sim, E. U. H., Ang, C. H., Ng, C. C., Lee, C. W., Narayanan, K. Differential expression of a subset of ribosomal protein genes in cell lines derived from human nasopharyngeal epithelium. J. Hum. Genet. 55: 118-120, 2010.3. Wang, R., Yoshida, K., Toki, T., Sawada, T., Uechi, T., Okuno, Y., Sato-Otsubo, A., Kudo, K., Kamimaki, I., Kanezaki, R., Shiraishi, Y., Chiba, K., and 21 others. Loss of function mutations in RPL27 and RPS27 identified by whole exome sequencing in Diamond-Blackfan anaemia. Brit. J. Haemat. 168: 854-864, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	388769
NCBI GeneID	6155
UniProt Accession #	P61353; P08526; Q4G0A9
Molecular Weight	15,798 Da
NCBI Official Full Name	ribosomal protein L27
NCBI Official Synonym Full Names	ribosomal protein L27
NCBI Official Symbol	RPL27
NCBI Official Synonym Symbols	L27
NCBI Protein Information	60S ribosomal protein L27
UniProt Protein Name	60S ribosomal protein L27
UniProt Gene Name	RPL27
UniProt Entry Name	RL27_HUMAN

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