

Rabbit anti-Human RPL5 Polyclonal Antibody | anti-RPL5 antibody

Anti-RPL5 Antibody Picoband

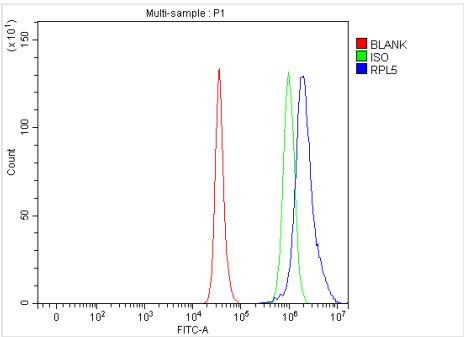
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126263	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RPL5; Polyclonal Antibody; Anti-RPL5 Antibody Picoband; anti-RPL5 antibody

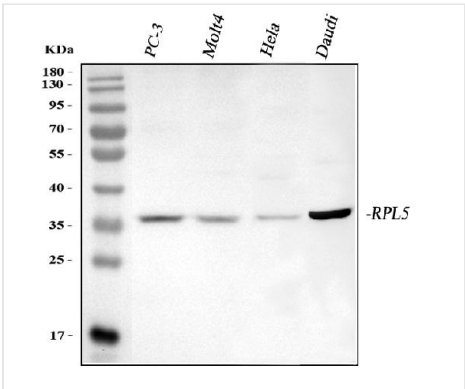
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-RPL5 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human RPL5 recombinant protein (Position: K27-S297).
Preparation and Storage	Store 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-RPL5 antibody (AAA126263).Overlay histogram showing HepG2 cells stained with AAA126263 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPL5 Antibody (AAA126263, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RPL5 using anti-RPL5 antibody (AAA126263).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 PC-3 whole cell lysates,Lane 2: human MOLT-4 whole cell lysates,Lane 3: human Hela whole cell lysates,Lane 4: human Daudi 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-RPL5 antigen affinity purified polyclonal antibody (#AAA126263) at 0.5 ug/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 RPL5 at approximately 35 kDa. The expected band size for RPL5 is at 35 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPL5 antibody	60S ribosomal protein L5 is a protein that in humans is encoded by the RPL5 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 L18P family of ribosomal proteins and component of the 60S subunit. The encoded protein binds 5S rRNA to form a stable complex called the 5S ribonucleoprotein particle (RNP), which is necessary for the transport of nonribosome-associated cytoplasmic 5S rRNA to the nucleolus for assembly into ribosomes. The encoded protein may also function to inhibit tumorigenesis through the activation of downstream tumor suppressors and the downregulation of oncoprotein expression. Mutations in this gene have been identified in patients with Diamond-Blackfan Anemia (DBA). This gene is co-transcribed with the small nucleolar RNA gene U21, which is located in its fifth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed throughout the genome.
Product Categories/Family for anti-RPL5 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	14591909
NCBI GeneID	6125
NCBI Accession #	NP_000960.2
NCBI GenBank Nucleotide #	NM_000969.3
UniProt Accession #	P46777; Q32LZ3; Q53HH6; Q9H3F4
Molecular Weight	34,363 Da
NCBI Official Full Name	60S ribosomal protein L5
NCBI Official Synonym Full Names	ribosomal protein L5

NCBI Official Symbol	RPL5
NCBI Official Synonym Symbols	L5; DBA6; MSTP030
NCBI Protein Information	60S ribosomal protein L5
UniProt Protein Name	60S ribosomal protein L5
UniProt Gene Name	RPL5
UniProt Entry Name	RL5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rpl5-antibody-western-blot-flow-cytometry-elisa/126263>