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RPL11 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12353a

Specification

RPL11 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	P62913
Other Accession	P62914, Q29205, Q9CXW4, Q3T087, NP_000966.2, G1TUB8
Reactivity	**Human**
Predicted	**Bovine, Mouse, Pig, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20252**
Antigen Region	**1-30**

RPL11 Antibody (N-term) - Additional Information

Gene ID 6135

Other Names
60S ribosomal protein L11, CLL-associated antigen KW-12, RPL11

Target/Specificity
This RPL11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RPL11.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RPL11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RPL11 Antibody (N-term) - Protein Information

Name RPL11

Function Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:19191325, PubMed:32669547). The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules (PubMed:19191325, PubMed:32669547). The large subunit (LSU) contains the ribosomal catalytic site termed the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds, thereby polymerizing the amino acids delivered by tRNAs into a polypeptide chain (PubMed:19191325, PubMed:32669547). The nascent polypeptides leave the ribosome through a tunnel in the LSU and interact with protein factors that function in enzymatic processing, targeting, and the membrane insertion of nascent chains at the exit of the ribosomal tunnel (PubMed:19191325, PubMed:32669547). As part of the 5S RNP/5S ribonucleoprotein particle it is an essential component of the LSU, required for its formation and the maturation of rRNAs (PubMed:12962325, PubMed:19061985, PubMed:24120868). It also couples ribosome biogenesis to p53/TP53 activation. As part of the 5S RNP it accumulates in the nucleoplasm and inhibits MDM2, when ribosome biogenesis is perturbed, mediating the stabilization and the activation of TP53 (PubMed:24120868). Promotes nucleolar location of PML (By similarity).

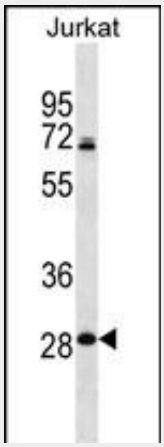
Cellular Location
Nucleus, nucleolus. Cytoplasm {ECO:0000250|UniProtKB:Q9CXW4}

RPL11 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RPL11 Antibody (N-term) - Images



RPL11 Antibody (N-term) (Cat. #AP12353a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the RPL11 antibody detected the RPL11 protein (arrow).

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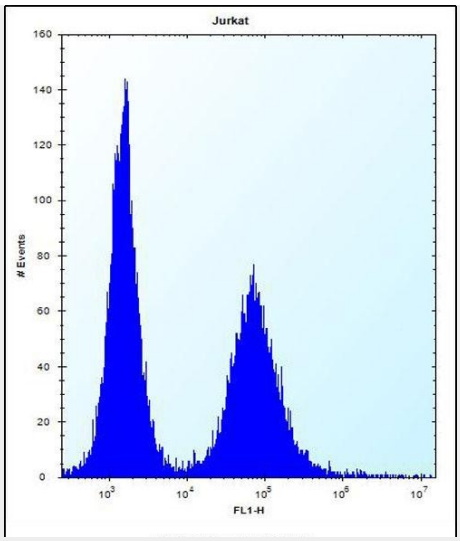

RPL11 Antibody (N-term) (Cat. #AP12353a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

RPL11 Antibody (N-term) - Background

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L5P family of ribosomal proteins. It is located in the cytoplasm. The protein probably associates with the 5S rRNA. Alternative splice variants encoding different isoforms may exist, but they have not been fully characterized. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq].

RPL11 Antibody (N-term) - References

Sun, X.X., et al. J. Biol. Chem. 285(33):25812-25821(2010)
Konno, Y., et al. Haematologica 95(8):1293-1299(2010)
Dai, M.S., et al. J. Biol. Chem. 285(17):12587-12594(2010)
Holzel, M., et al. J. Biol. Chem. 285(9):6364-6370(2010)
Quarello, P., et al. Haematologica 95(2):206-213(2010)