

RPS23 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18598a

Product Information

Application	WB, E
Primary Accession	P62266
Other Accession	P62268 , P62267 , Q3T199 , NP_001016.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38616
Calculated MW	15808
Antigen Region	1-30

Additional Information

Gene ID	6228
Other Names	40S ribosomal protein S23, RPS23
Target/Specificity	This RPS23 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RPS23.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	RPS23 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPS23
Function	Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed: 23636399 , PubMed: 25901680 , PubMed: 25957688 , PubMed: 28257692). The small

ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules (PubMed:[23636399](#), PubMed:[25901680](#), PubMed:[25957688](#)). 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:[23636399](#), PubMed:[25901680](#), PubMed:[25957688](#)). 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:[23636399](#), PubMed:[25901680](#), PubMed:[25957688](#)). Plays an important role in translational accuracy (PubMed:[28257692](#)). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:[34516797](#)).

Cellular Location

Cytoplasm, cytosol. Cytoplasm Rough endoplasmic reticulum {ECO:0000250|UniProtKB:Q6SA96}. Nucleus, nucleolus. Note=Detected on cytosolic polysomes (PubMed:25957688). Detected in ribosomes that are associated with the rough endoplasmic reticulum (By similarity) {ECO:0000250|UniProtKB:Q6SA96, ECO:0000269|PubMed:25957688}

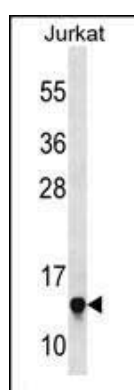
Background

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 40S subunit. The protein belongs to the S12P family of ribosomal proteins. It is located in the cytoplasm. The protein shares significant amino acid similarity with *S. cerevisiae* ribosomal protein S28. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq].

References

Yu, Y., et al. Protein Sci. 14(6):1438-1446(2005)
 Andersen, J.S., et al. Nature 433(7021):77-83(2005)
 Kapp, L.D., et al. Annu. Rev. Biochem. 73, 657-704 (2004) :
 Sampath, P., et al. Mol. Cell. Biol. 23(5):1509-1519(2003)
 Kenmochi, N., et al. Genome Res. 8(5):509-523(1998)

Images



RPS23 Antibody (N-term) (Cat. #AP18598a) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the RPS23 antibody detected the RPS23 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.