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RPS6 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1977a

Specification

RPS6 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P62753
Other Accession	P62755, P62754, Q4R4K6, Q5E995
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28681**
Antigen Region	**1-30**

RPS6 Antibody (N-term) - Additional Information

Gene ID 6194

Other Names
40S ribosomal protein S6, Phosphoprotein NP33, RPS6

Target/Specificity
This RPS6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RPS6.

Dilution
WB~~1:1000

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
RPS6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RPS6 Antibody (N-term) - Protein Information

Name RPS6 {ECO:0000303|PubMed:29563586, ECO:0000312|HGNC:HGNC:10429}

Function Component of the 40S small ribosomal subunit (PubMed:8706699, PubMed:23636399).

Plays an important role in controlling cell growth and proliferation through the selective translation of particular classes of mRNA (PubMed:17220279). 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).

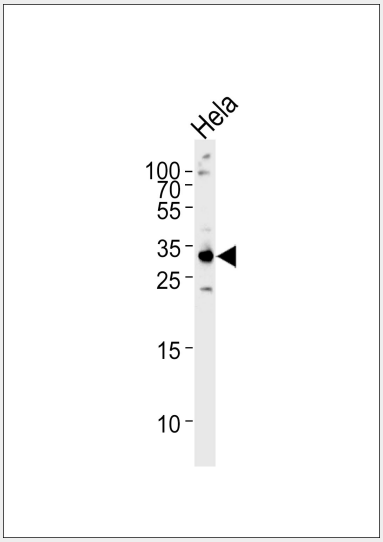
Cellular Location
Cytoplasm. Nucleus, nucleolus

RPS6 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

RPS6 Antibody (N-term) - Images



Western blot analysis of lysate from HeLa cell line, using RPS6 Antibody (N-term)(Cat. #AP1977a). AP1977a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

RPS6 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. RPS6 is a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by

different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA.

RPS6 Antibody (N-term) - References

Lott J.B., Gene 65:31-39(1988).
Heinze H., J. Biol. Chem. 263:4139-4144(1988).
Antoine M., Hum. Mol. Genet. 1:565-570(1992).
Pata I., Gene 121:387-392(1992).