10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RPS14 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16046b

Specification

RPS14 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P62263
Other Accession	P13471, P62264, P14130, P62265, NP_001020241.1, NP_005608.1, C0HKA0, C0HKA1
Reactivity	**Human**
Predicted	**Drosophila, Hamster, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**16273**
Antigen Region	**118-147**

RPS14 Antibody (C-term) - Additional Information

Gene ID 6208

Other Names
40S ribosomal protein S14, RPS14

Target/Specificity
This RPS14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-147 amino acids from the C-terminal region of human RPS14.

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
RPS14 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RPS14 Antibody (C-term) - Protein Information

Name RPS14 (HGNC:10387)

Function Component of the small ribosomal subunit. The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell. 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).

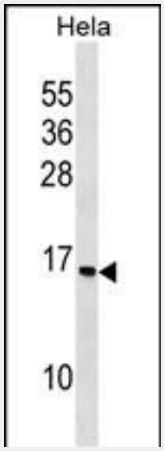
Cellular Location
Cytoplasm. Nucleus, nucleolus

RPS14 Antibody (C-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

RPS14 Antibody (C-term) - Images



RPS14 Antibody (C-term) (Cat. #AP16046b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the RPS14 antibody detected the RPS14 protein (arrow).

RPS14 Antibody (C-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 40S subunit. The protein belongs to the S11P family of ribosomal proteins. It is located in the cytoplasm. Transcript variants utilizing alternative transcription initiation sites have been described in the literature. As is typical for genes encoding ribosomal proteins, there are multiple

processed pseudogenes of this gene dispersed through the genome. In Chinese hamster ovary cells, mutations in this gene can lead to resistance to emetine, a protein synthesis inhibitor. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.

RPS14 Antibody (C-term) - References

Oliva, E.N., et al. Eur. J. Haematol. 85(3):231-235(2010)
Borze, I., et al. Cancer Genet. Cytogenet. 197(2):166-173(2010)
Quarello, P., et al. Haematologica 95(2):206-213(2010)
Valencia, A., et al. Blood 112 (3), 918 (2008) :
Ebert, B.L., et al. Nature 451(7176):335-339(2008)