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RPS19 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14541b

Specification

RPS19 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P39019

RPS19 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 6223

Other Names
40S ribosomal protein S19, RPS19

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RPS19 Antibody (C-term) Blocking Peptide - Protein Information

Name RPS19 (HGNC:10402)

Function
Component of the small ribosomal subunit (PubMed:23636399). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). Required for pre- rRNA processing and maturation of 40S ribosomal subunits (PubMed:16990592). 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

Tissue Location
Higher level expression is seen in the colon carcinoma tissue than normal colon tissue

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RPS19 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RPS19 Antibody (C-term) Blocking Peptide - Images

RPS19 Antibody (C-term) Blocking Peptide - Background

Ribosomes, the organelles that catalyze protein synthesis,consist of a small 40S subunit and a large 60S subunit. Togetherthese subunits are composed of 4 RNA species and approximately 80structurally distinct proteins. This gene encodes a ribosomalprotein that is a component of the 40S subunit. The protein belongsto the S19E family of ribosomal proteins. It is located in thecytoplasm. Mutations in this gene cause Diamond-Blackfan anemia(DBA), a constitutional erythroblastopenia characterized by absentor decreased erythroid precursors, in a subset of patients. Thissuggests a possible extra-ribosomal function for this gene inerythropoietic differentiation and proliferation, in addition toits ribosomal function. Higher expression levels of this gene insome primary colon carcinomas compared to matched normal colontissues has been observed. As is typical for genes encodingribosomal proteins, there are multiple processed pseudogenes ofthis gene dispersed through the genome.

RPS19 Antibody (C-term) Blocking Peptide - References

Devlin, E.E., et al. Blood 116(15):2826-2835(2010)Iadevaia, V., et al. Oncogene 29(40):5490-5499(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Nishiura, H., et al. Apoptosis 15(8):966-981(2010)Schuster, J., et al. Blood Cells Mol. Dis. 45(1):23-28(2010)