

**RPS19 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12039c****Specification**

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**RPS19 Antibody (Center) Blocking peptide - Product Information**Primary Accession [P39019](#)**RPS19 Antibody (Center) 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 (Center) Blocking peptide - Protein Information****Name** RPS19 ([HGNC:10402](#))**Function**

Component of the small ribosomal subunit (PubMed:<a href="http://www.uniprot.org/citations/23636399" target="\_blank">23636399</a>). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:<a href="http://www.uniprot.org/citations/23636399" target="\_blank">23636399</a>). Required for pre- rRNA processing and maturation of 40S ribosomal subunits (PubMed:<a href="http://www.uniprot.org/citations/16990592" target="\_blank">16990592</a>). 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:<a href="http://www.uniprot.org/citations/34516797" target="\_blank">34516797</a>).

**Cellular Location**

Cytoplasm. Nucleus, nucleolus

**Tissue Location**

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

**RPS19 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RPS19 Antibody (Center) Blocking peptide - Images****RPS19 Antibody (Center) Blocking peptide - 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 S19E family of ribosomal proteins. It is located in the cytoplasm. Mutations in this gene cause Diamond-Blackfan anemia (DBA), a constitutional erythroblastopenia characterized by absent or decreased erythroid precursors, in a subset of patients. This suggests a possible extra-ribosomal function for this gene in erythropoietic differentiation and proliferation, in addition to its ribosomal function. Higher expression levels of this gene in some primary colon carcinomas compared to matched normal colon tissues has been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

**RPS19 Antibody (Center) 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)