

RPS3A Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5529b**Specification**

RPS3A Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P61247](#)
Other Accession [NP_000997.1](#)

RPS3A Antibody (C-term) Blocking peptide - Additional Information

Gene ID 6189

Other Names

40S ribosomal protein S3a {ECO:0000255|HAMAP-Rule:MF_03122}, v-fos transformation effector protein, Fte-1, RPS3A {ECO:0000255|HAMAP-Rule:MF_03122}, FTE1, MFTL

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.

RPS3A Antibody (C-term) Blocking peptide - Protein Information

Name RPS3A {ECO:0000255|HAMAP-Rule:MF_03122}

Synonyms FTE1, MFTL

Function

Component of the small ribosomal subunit. The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). 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). May play a role during erythropoiesis through regulation of transcription factor DDIT3 (By similarity).

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03122, ECO:0000269|PubMed:17289661, ECO:0000269|PubMed:23636399}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03122}. Nucleus,

nucleolus. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs

RPS3A Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RPS3A Antibody (C-term) Blocking peptide - Images

RPS3A Antibody (C-term) 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 S3AE family of ribosomal proteins. It is located in the cytoplasm. Disruption of the gene encoding rat ribosomal protein S3a, also named v-fos transformation effector protein, in v-fos-transformed rat cells results in reversion of the transformed phenotype. Transcript variants utilizing alternative transcription start sites have been described. This gene is co-transcribed with the U73A and U73B small nucleolar RNA genes, which are located in the fourth and third introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

RPS3A Antibody (C-term) Blocking peptide - References

Maggi, L.B. Jr., et al. Mol. Cell. Biol. 28(23):7050-7065(2008) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Jonson, L., et al. Mol. Cell Proteomics 6(5):798-811(2007) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :