

RPS27 Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP22097a**Specification**

RPS27 Blocking Peptide (N-Term) - Product Information

Primary Accession [P42677](#)
Other Accession [Q2KHT7](#), [Q6ZWU9](#), [Q71TY3](#)

RPS27 Blocking Peptide (N-Term) - Additional Information

Gene ID 6232

Other Names

40S ribosomal protein S27, Metallopan-stimulin 1, MPS-1, RPS27, MPS1

Target/Specificity

The synthetic peptide sequence is selected from aa 5-17 of HUMAN RPS27

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.

RPS27 Blocking Peptide (N-Term) - Protein Information

Name RPS27 ([HGNC:10416](#))

Synonyms MPS1

Function

Component of the small ribosomal subunit (PubMed:8706699, PubMed:23636399). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). Required for proper rRNA processing and maturation of 18S rRNAs (PubMed:25424902). 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

Expressed in a wide variety of actively proliferating cells and tumor tissues.

RPS27 Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

RPS27 Blocking Peptide (N-Term) - Images**RPS27 Blocking Peptide (N-Term) - References**

Fernandez-Pol J.A., et al. J. Biol. Chem. 268:21198-21204(1993).

Tsui S.K.W., et al. Biochem. Mol. Biol. Int. 40:611-616(1996).

Yoshihama M., et al. Genome Res. 12:379-390(2002).

Ota T., et al. Nat. Genet. 36:40-45(2004).

Gregory S.G., et al. Nature 441:315-321(2006).