

RPS7 Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP22077a**Specification**

RPS7 Blocking Peptide (N-Term) - Product Information

Primary Accession [P62081](#)
Other Accession [A6H769](#), [P62084](#), [Q5RT64](#), [P62082](#), [P62083](#),
[P50894](#), [P02362](#)

RPS7 Blocking Peptide (N-Term) - Additional Information

Gene ID 6201

Other Names

40S ribosomal protein S7, RPS7

Target/Specificity

The synthetic peptide sequence is selected from aa 7-20 of HUMAN RPS7

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.

RPS7 Blocking Peptide (N-Term) - Protein Information

Name RPS7 ([HGNC:10440](#))

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 rRNA maturation (PubMed:19061985). 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, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Nucleus, nucleolus Note=Although RPS7 is functional within the cytoplasm, the assembly of ribosomal subunits occurs in the nucleus. RPS7 nuclear import is mediated by IPO5/RanBP5, IPO7/RanBP7, KPNB1/importin-beta or TPNO1/Trn (PubMed:9687515). Colocalizes with NEK6 in the centrosome (PubMed:20873783).

RPS7 Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

RPS7 Blocking Peptide (N-Term) - Images**RPS7 Blocking Peptide (N-Term) - Background**

Required for rRNA maturation.

RPS7 Blocking Peptide (N-Term) - References

Annilo T.,et al.Gene 165:297-302(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Vladimirov S.N.,et al.Eur. J. Biochem. 239:144-149(1996).