

**RPS4X Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6671b****Specification**

---

**RPS4X Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P62701](#)**RPS4X Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6191**Other Names**

40S ribosomal protein S4, X isoform, SCR10, Single copy abundant mRNA protein, RPS4X, CCG2, RPS4, SCAR

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6671b](/products/AP6671b) was selected from the C-term region of human RPS4X. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**RPS4X Antibody (C-term) Blocking Peptide - Protein Information****Name** RPS4X ([HGNC:10424](#))**Synonyms** CCG2, RPS4, SCAR**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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/34516797)).

**Cellular Location**

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

**RPS4X Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RPS4X Antibody (C-term) Blocking Peptide - Images****RPS4X Antibody (C-term) Blocking Peptide - Background**

Cytoplasmic ribosomes, 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. Ribosomal protein S4, a component of the 40S subunit, is the only ribosomal protein known to be encoded by more than one gene, namely this gene and ribosomal protein S4, Y-linked (RPS4Y). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent. Ribosomal protein S4 belongs to the S4E family of ribosomal proteins.

**RPS4X Antibody (C-term) Blocking Peptide - References**

Zinn,A.R., Mol. Cell. Biol. 14 (4), 2485-2492 (1994)