

**TUT1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5494a****Specification**

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**TUT1 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [O9H6E5](#)  
Other Accession [NP\\_073741.1](#)

**TUT1 Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 64852

**Other Names**

Speckle targeted PIP5K1A-regulated poly(A) polymerase, Star-PAP, RNA-binding motif protein 21, RNA-binding protein 21, U6 snRNA-specific terminal uridylyltransferase 1, U6-TUTase, TUT1, RBM21

**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.

**TUT1 Antibody (N-term) Blocking peptide - Protein Information**

**Name** TUT1

**Synonyms** RBM21

**Function**

Poly(A) polymerase that creates the 3'-poly(A) tail of specific pre-mRNAs (PubMed:<a href="http://www.uniprot.org/citations/18288197" target="\_blank">18288197</a>, PubMed:<a href="http://www.uniprot.org/citations/21102410" target="\_blank">21102410</a>). Localizes to nuclear speckles together with PIP5K1A and mediates polyadenylation of a select set of mRNAs, such as HMOX1 (PubMed:<a href="http://www.uniprot.org/citations/18288197" target="\_blank">18288197</a>). In addition to polyadenylation, it is also required for the 3'-end cleavage of pre-mRNAs: binds to the 3'UTR of targeted pre-mRNAs and promotes the recruitment and assembly of the CPSF complex on the 3'UTR of pre-mRNAs (PubMed:<a href="http://www.uniprot.org/citations/21102410" target="\_blank">21102410</a>). In addition to adenylyltransferase activity, also has uridylyltransferase activity (PubMed:<a href="http://www.uniprot.org/citations/16790842" target="\_blank">16790842</a>, PubMed:<a href="http://www.uniprot.org/citations/18288197" target="\_blank">18288197</a>, PubMed:<a href="http://www.uniprot.org/citations/28589955" target="\_blank">28589955</a>). However, the

ATP ratio is higher than UTP in cells, suggesting that it functions primarily as a poly(A) polymerase (PubMed:<a href="http://www.uniprot.org/citations/18288197" target="\_blank">18288197</a>). Acts as a specific terminal uridylyltransferase for U6 snRNA in vitro: responsible for a controlled elongation reaction that results in the restoration of the four 3'-terminal UMP-residues found in newly transcribed U6 snRNA (PubMed:<a href="http://www.uniprot.org/citations/16790842" target="\_blank">16790842</a>, PubMed:<a href="http://www.uniprot.org/citations/18288197" target="\_blank">18288197</a>, PubMed:<a href="http://www.uniprot.org/citations/28589955" target="\_blank">28589955</a>). Not involved in replication-dependent histone mRNA degradation.

**Cellular Location**

Nucleus, nucleolus. Nucleus speckle

**Tissue Location**

Widely expressed..

**TUT1 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**TUT1 Antibody (N-term) Blocking peptide - Images**