

PUS7 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP4850a**Specification**

PUS7 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96PZ0](#)**PUS7 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54517**Other Names**

Pseudouridylate synthase 7 homolog, 5499-, PUS7, KIAA1897

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.

PUS7 Antibody (N-term) Blocking Peptide - Protein Information**Name** PUS7 {ECO:0000303|PubMed:30526862, ECO:0000312|HGNC:HGNC:26033}**Function**

Pseudouridylate synthase that catalyzes pseudouridylation of RNAs (PubMed:28073919, PubMed:29628141, PubMed:30778726, PubMed:31477916, PubMed:35051350, PubMed:34718722). Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex (PubMed:29628141). Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3' (PubMed:28073919, PubMed:31477916, PubMed:35051350). Acts as a regulator of pre-mRNA splicing by mediating pseudouridylation of pre-mRNAs at locations associated with alternatively spliced regions (PubMed:35051350).

Pseudouridylation of pre-mRNAs near splice sites directly regulates mRNA splicing and mRNA 3'-end processing (PubMed:<[a href="http://www.uniprot.org/citations/35051350" target="_blank">35051350\). In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types \(PubMed:<\[a href="http://www.uniprot.org/citations/29628141" target="_blank">29628141\\).\]\(http://www.uniprot.org/citations/29628141\)](http://www.uniprot.org/citations/35051350)

Cellular Location

Nucleus

PUS7 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PUS7 Antibody (N-term) Blocking Peptide - Images**PUS7 Antibody (N-term) Blocking Peptide - References**

Hillier, L.W., et al. Nature 424(6945):157-164(2003)