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PUS7 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP4850a

Specification

PUS7 Antibody (N-term) Blocking Peptide - Product Information

Primary 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: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:29628141).

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)