

**Phospho-LIN28(S134) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3732a****Specification**

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**Phospho-LIN28(S134) Antibody Blocking peptide - Product Information**Primary Accession  
Other Accession[O9H9Z2](#)  
[NP\\_078950](#)**Phospho-LIN28(S134) Antibody Blocking peptide - Additional Information****Gene ID** 79727**Other Names**

Protein lin-28 homolog A, Lin-28A, Zinc finger CCHC domain-containing protein 1, LIN28A, CSDD1, LIN28, ZCCHC1

**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.

**Phospho-LIN28(S134) Antibody Blocking peptide - Protein Information****Name** LIN28A**Synonyms** CSDD1, LIN28, ZCCHC1**Function**

RNA-binding protein that inhibits processing of pre-let-7 miRNAs and regulates translation of mRNAs that control developmental timing, pluripotency and metabolism (PubMed:<a href="http://www.uniprot.org/citations/21247876" target="\_blank">21247876</a>). Seems to recognize a common structural G-quartet (G4) feature in its miRNA and mRNA targets (Probable). 'Translational enhancer' that drives specific mRNAs to polysomes and increases the efficiency of protein synthesis. Its association with the translational machinery and target mRNAs results in an increased number of initiation events per molecule of mRNA and, indirectly, in mRNA stabilization. Binds IGF2 mRNA, MYOD1 mRNA, ARBP/36B4 ribosomal protein mRNA and its own mRNA. Essential for skeletal muscle differentiation program through the translational up-regulation of IGF2 expression. Suppressor of microRNA (miRNA) biogenesis, including that of let-7, miR107, miR-143 and miR-200c. Specifically binds the miRNA precursors (pre-miRNAs), recognizing an 5'-GGAG-3' motif found in pre-miRNA terminal loop, and recruits TUT4 and TUT7 uridylyltransferases (PubMed:<a href="http://www.uniprot.org/citations/18951094" target="\_blank">18951094</a>, PubMed:<a href="http://www.uniprot.org/citations/19703396"

target="\_blank">19703396</a>, PubMed:<a href="http://www.uniprot.org/citations/22118463" target="\_blank">22118463</a>, PubMed:<a href="http://www.uniprot.org/citations/22898984" target="\_blank">22898984</a>). This results in the terminal uridylation of target pre-miRNAs (PubMed:<a href="http://www.uniprot.org/citations/18951094" target="\_blank">18951094</a>, PubMed:<a href="http://www.uniprot.org/citations/19703396" target="\_blank">19703396</a>, PubMed:<a href="http://www.uniprot.org/citations/22118463" target="\_blank">22118463</a>, PubMed:<a href="http://www.uniprot.org/citations/22898984" target="\_blank">22898984</a>). Uridylated pre-miRNAs fail to be processed by Dicer and undergo degradation. The repression of let-7 expression is required for normal development and contributes to maintain the pluripotent state by preventing let-7-mediated differentiation of embryonic stem cells (PubMed:<a href="http://www.uniprot.org/citations/18951094" target="\_blank">18951094</a>, PubMed:<a href="http://www.uniprot.org/citations/19703396" target="\_blank">19703396</a>, PubMed:<a href="http://www.uniprot.org/citations/22118463" target="\_blank">22118463</a>, PubMed:<a href="http://www.uniprot.org/citations/22898984" target="\_blank">22898984</a>). Localized to the periendoplasmic reticulum area, binds to a large number of spliced mRNAs and inhibits the translation of mRNAs destined for the ER, reducing the synthesis of transmembrane proteins, ER or Golgi lumen proteins, and secretory proteins. Binds to and enhances the translation of mRNAs for several metabolic enzymes, such as PFKF, PDHA1 or SDHA, increasing glycolysis and oxidative phosphorylation. Which, with the let-7 repression may enhance tissue repair in adult tissue (By similarity).

#### **Cellular Location**

Cytoplasm. Rough endoplasmic reticulum {ECO:0000250|UniProtKB:Q8K3Y3}. Cytoplasm, P-body. Cytoplasm, Stress granule. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q8K3Y3}. Note=Predominantly cytoplasmic (PubMed:22118463). In the cytoplasm, localizes to peri-endoplasmic reticulum regions and detected in the microsomal fraction derived from rough endoplasmic reticulum (RER) following subcellular fractionation May be bound to the cytosolic surface of RER on which ER-associated mRNAs are translated (By similarity). Shuttle from the nucleus to the cytoplasm requires RNA-binding (PubMed:17617744). Nucleolar localization is observed in 10-15% of the nuclei in differentiated myotubes (By similarity). {ECO:0000250|UniProtKB:Q8K3Y3, ECO:0000269|PubMed:17617744, ECO:0000269|PubMed:22118463}

#### **Tissue Location**

Expressed in embryonic stem cells, placenta and testis. Tends to be up-regulated in HER2-overexpressing breast tumors

### **Phospho-LIN28(S134) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **Phospho-LIN28(S134) Antibody Blocking peptide - Images**

### **Phospho-LIN28(S134) Antibody Blocking peptide - Background**

LIN28 is probable transcription factor. It plays a critical role in the control of immune response.

### **Phospho-LIN28(S134) Antibody Blocking peptide - References**

Qiu, C., et al. Nucleic Acids Res. 38(4):1240-1248(2010)Iliopoulos, D., et al. Cell 139(4):693-706(2009)Heo, I., et al. Cell 138(4):696-708(2009)