

# Recombinant human Lin28A protein ab107950

| 描述        |  |
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| 产品名称      | 重组人Lin28A蛋白  |
| 生物活性      | Measured by its ability to induce fluorescence in Lin28A reporter cells (293 cells transfected with fluorescent protein genes under Lin28A control). Optimum activity was achieved at 20 µg/ml after incubation for 72 hr. |
| 纯度        | > 90 % SDS-PAGE.<br>Purity is greater than 90% by SDS-PAGE gel and HPLC analyses.  |
| 内毒素水平     | < 1.000 Eu/µg  |
| 表达系统      | Escherichia coli   |
| Accession | <b><u>Q9H9Z2</u></b>   |
| 蛋白长度      | Protein fragment   |
| 无动物成分     | No   |
| 性质        | Recombinant  |
| 种属        | Human  |
| 序列        | GPSVSNQQFAGGCAKAAEEAPEEAPEDAARAADPQLLHGAG<br>ICKWFNVR<br>MGFGFLSMTARAGVALDPPVDVFVHQSKLHMEGFRSLKEGEA<br>VEFTFKKS<br>AKGLESIRVTGPGGVFCIGSERRPKGKSMQKRRSKGDRCYNC<br>GGLDHHAK ECKLPPQPKKCHFCQSISHMVASCPLKAQQGP                 |
| 预测分子量     | 24 kDa including tags  |
| 氨基酸       | 3 to 182   |
| 额外的序列信息   | Recombinant fragment including a 13-residue C-terminal TAT peptide.  |

| 技术指标   |                                |
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| Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab107950</b> in the following tested applications.                        |                                |
| The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user. |                                |
| 应用   | SDS-PAGE<br>Functional Studies |
| 形式   | Lyophilized                    |

## 制备和贮存

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### 稳定性和存储

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituent: 0.294% Sodium citrate

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### 复溶

Reconstitute in water to a concentration of 1.0 mg/ml

## 常规信息

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### 功能

Acts as a 'translational enhancer', driving specific mRNAs to polysomes and thus increasing 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 stabilizing the mRNAs. 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 (By similarity). Acts as a suppressor of microRNA (miRNA) biogenesis by specifically binding the precursor let-7 (pre-let-7), a miRNA precursor. Acts by binding pre-let-7 and recruiting ZCCHC11/TUT4 uridylyltransferase, leading to the terminal uridylation of pre-let-7. Uridylated pre-let-7 miRNAs fail to be processed by Dicer and undergo degradation. Degradation of pre-let-7 in embryonic stem (ES) cells contributes to the maintenance of ES cells. In contrast, LIN28A down-regulation in neural stem cells by miR-125, allows the processing of pre-let-7. Specifically recognizes the 5'-GGAG-3' motif in the terminal loop of pre-let-7. Also recognizes and binds non pre-let-7 pre-miRNAs that contain the 5'-GGAG-3' motif in the terminal loop, leading to their terminal uridylation and subsequent degradation.

### 组织特异性

Expressed in embryonic stem cells (ES cells), placenta and testis.

### 序列相似性

Belongs to the lin-28 family.

Contains 2 CCHC-type zinc fingers.

Contains 1 CSD (cold-shock) domain.

### 发展阶段

Expressed in fetal liver. Expression decreases during differentiation of ES cells or upon induction of neuronal differentiation by retinoic acid.

### 结构域

The CSD domain is required for function in muscle differentiation.

### 细胞定位

Cytoplasm. Nucleus > nucleolus. Nucleolar localization observed in 10-15% of the nuclei in differentiated myotubes (By similarity). Shuttles between the cytoplasm and the nucleus. Localizes to cytoplasmic processing bodies and stress granules.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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