

## Product datasheet for **AP52486PU-N**

### Lin28 (LIN28A) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/100-1/500. <b>Flow Cytometry:</b> 1/10-1/50.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	His fusion protein from Human LIN28A
Specificity:	This antibody recognizes Human and Mouse LIN28.
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lin-28 homolog A
Database Link:	<a href="#">Entrez Gene 83557 Mouse</a> <a href="#">Entrez Gene 79727 Human</a> <a href="#">Q9H9Z2</a>



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**Background:**

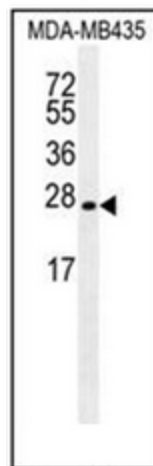
Acts as a 'translational enhancer', driving specific mRNAs to polysomes and thus increasing the efficiency of protein synthesis. Its association with the translational machinery and target mRNAs results in an increased number of initiation events per molecule of mRNA and, indirectly, in stabilizing the 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.

**Synonyms:**

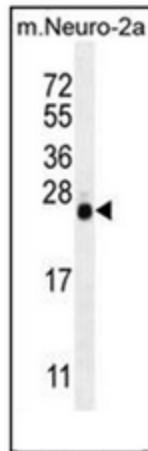
LIN-28, LIN28A, CSDD1, ZCCHC1

**Note:****Molecular Weight:** 22743 Da**Protein Families:**

Transcription Factors

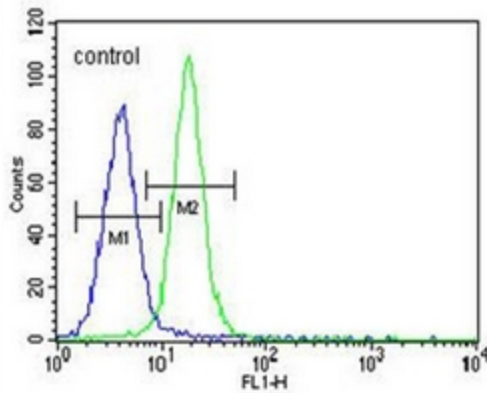
**Product images:**

Western blot analysis of LIN28 Antibody in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the LIN28 antibody detected the LIN28 protein (arrow).



Western blot analysis of LIN28 Antibody in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the LIN28 antibody detected the LIN28 protein (arrow).

### MDA-MB435



Flow cytometric analysis of MDA-MB435 cells using LIN28 Antibody (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.