

Product datasheet for TA346996

Lin28 (LIN28A) Mouse Monoclonal Antibody [Clone ID: 2C1-F9-A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2C1-F9-A2
Applications:	WB
Recommend Dilution:	WB: 1:1000
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The immunogen for LIN28A antibody: purified recombinant human LIN28A protein fragments expressed in E.coli
Formulation:	Purified mouse monoclonal in PBS(pH 7.4)containing with 0.02% sodium azide and 50% glycerol.
Purification:	Affinity purified
Predicted Protein Size:	26 kDa
Gene Name:	lin-28 homolog A
Database Link:	NP_078950 Entrez Gene 83557 Mouse Entrez Gene 79727 Human



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Background:

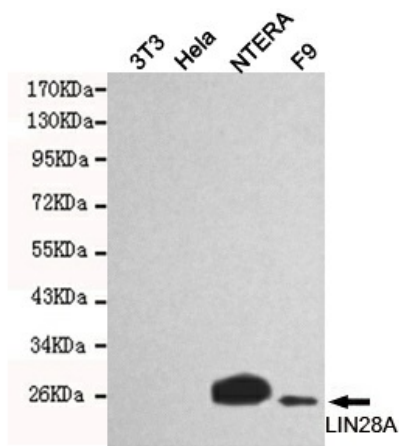
Acts as a 'translational enhancer', driving specific mRNAs to polysomes and thus increasing the efficiency of protein synthesis. Its association with the translational machinery and target mRNAs results in an increased number of initiation events per molecule of mRNA and, indirectly, in stabilizing the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

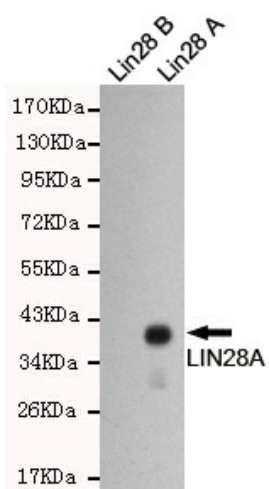
CSDD1; LIN-28; lin-28A; LIN28; ZCCHC1

Protein Families:

Transcription Factors

Product images:

Western blot detection of LIN28 in NTERA and F9 cell lysates using LIN28A mouse mAb (1:1000 diluted). Predicted band size: 26 kDa. Observed band size: 26 kDa.



Western blot detection of LIN28A in LIN28B and LIN28A recombinant antigen fragments and using LIN28A mouse mAb (1:1000 diluted).