Datasheet for ABIN953174

anti-LIN28A antibody (Middle Region)

3 Images

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Overview

Quantity:	0.4 mL
Target:	LIN28A
Binding Specificity:	AA 115-147, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIN28A antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 115-147 amino acids from the Central region of human LIN28A
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human and Mouse LIN28A (Center).
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

Target Details

Target:	LIN28A
Alternative Name:	LIN28 (LIN28A Products)

Target Details

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, LIN28A, Lin-28 homolog A, ZCCHC1
Molecular Weight:	22743 Da
Gene ID:	79727
NCBI Accession:	NP_078950
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

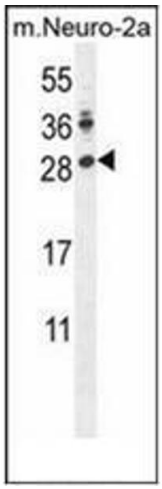
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

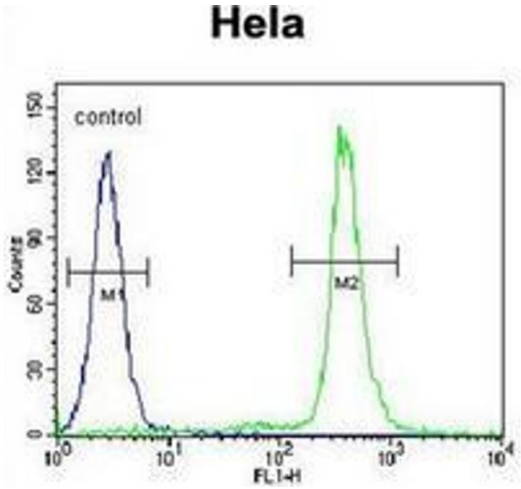
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



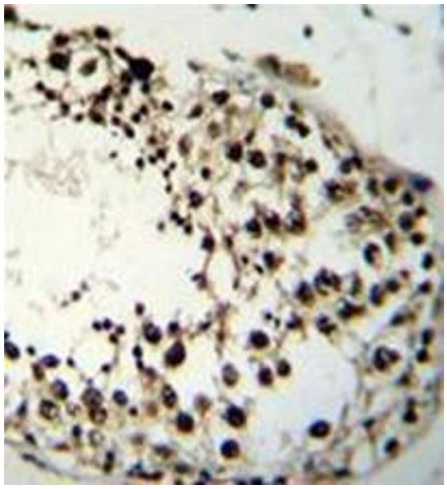
Western Blotting

Image 1. Western blot analysis of LIN28A Antibody (Center) in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the LIN28A antibody detected the LIN28A protein (arrow).



Flow Cytometry

Image 2. Flow cytometric analysis of Hela cells using LIN28A Antibody (Center) Cat.-No AP52487PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue reacted with LIN28A Antibody (Center) followed which was peroxidase conjugated to the secondary antibody and followed by DAB staining.