

**#3978** Store at -20°C

## LIN28A (A177) Antibody


**Cell Signaling**  
TECHNOLOGY®

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<b>Applications:</b> WB, IF-IC, FC-FP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 26	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q9H9Z2	<b>Entrez-Gene Id:</b> 79727
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### Product Usage Information

#### Application

Western Blotting  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:800  
1:100

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

LIN28A (A177) Antibody detects endogenous levels of LIN28A protein.

### Species predicted to react based on 100% sequence homology:

Monkey

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence surrounding Ala177 of human LIN28A. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

LIN28A and LIN28B are conserved, developmentally regulated RNA binding proteins that inhibit the processing and maturation of the let-7 family of miRNAs (1,2). The let-7 miRNAs have been implicated in repression of oncogenes such as Ras, Myc, and HMGA2 (3). It has recently been shown that upregulation of LIN28A and LIN28B in primary human tumors and human cancer cell lines is correlated with downregulation of let-7 miRNAs (4). LIN28 genes are reported to be involved in primordial germ cell development and germ cell malignancy (5). In addition, allelic variation in LIN28B is associated with regulating the timing of puberty in humans (6). Overexpression of LIN28A, in conjunction with Oct-4, Sox2, and Nanog, can reprogram human fibroblasts to pluripotent, ES-like cells (7).

### Background References

- Balzer, E. and Moss, E.G. (2007) *RNA Biol* 4, 16-25.
- Piskounova, E. et al. (2008) *J Biol Chem* 283, 21310-4.
- Cho, W.C. (2007) *Mol Cancer* 6, 60.
- Viswanathan, S.R. et al. (2009) *Nat Genet* 41, 843-8.
- West, J.A. et al. (2009) *Nature* 460, 909-13.
- Ong, K.K. et al. (2009) *Nat Genet* 41, 729-33.
- Yu, J. et al. (2007) *Science* 318, 1917-20.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)  
**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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