

#20607 Store at -20C

## Phospho-LIN28A (Ser200) (D5I6X) Rabbit mAb



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 26	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H9Z2	Entrez-Gene Id: 79727
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:100

### Specificity / Sensitivity

Phospho-LIN28A (Ser200) (D5I6X) recognizes endogenous levels of LIN28A protein only when phosphorylated at Ser200.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Serine 200 of human LIN28A protein.

### 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). In high throughput studies, phosphorylation of Lin28A on Ser200 was observed upon differentiation of embryonic stem cells (8).

### 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.
- Van Hoof, D. et al. (2009) *Cell Stem Cell* 5, 214-26.

### 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 **IP:** Immunoprecipitation

### 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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