

Phospho-LIN28A (Ser200) Antibody



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Applications:	Reactivity:	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #Q9H9Z2	Entrez-Gene Id: 79727
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Phospho-LIN28A (Ser200) Antibody recognizes endogenous levels of LIN28A protein only when phosphorylated at Ser200. This antibody may react weakly with phosphorylated Thr202 on LIN28A.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser200 of human LIN28A protein. 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). 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 Reactiv	rity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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