

#3695 Store at -20C

LIN28A (D84C11) XP® Rabbit mAb


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-IC, FC-FP	H	Endogenous	26	Rabbit IgG	#Q9H9Z2	79727

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunohistochemistry (Paraffin)	1:50 - 1:200
	Immunofluorescence (Immunocytochemistry)	1:400
	Flow Cytometry (Fixed/Permeabilized)	1:100
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	LIN28A (D84C11) XP® Rabbit mAb detects endogenous levels of total LIN28A protein.	
Species predicted to react based on 100% sequence homology:	Rat, Monkey	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence at the carboxy terminus of human LIN28A.	
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	<ol style="list-style-type: none"> 1. Balzer, E. and Moss, E.G. (2007) <i>RNA Biol</i> 4, 16-25. 2. Piskounova, E. et al. (2008) <i>J Biol Chem</i> 283, 21310-4. 3. Cho, W.C. (2007) <i>Mol Cancer</i> 6, 60. 4. Viswanathan, S.R. et al. (2009) <i>Nat Genet</i> 41, 843-8. 5. West, J.A. et al. (2009) <i>Nature</i> 460, 909-13. 6. Ong, K.K. et al. (2009) <i>Nat Genet</i> 41, 729-33. 7. Yu, J. et al. (2007) <i>Science</i> 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 IHC-P: Immunohistochemistry (Paraffin) 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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