

LIN28A (D1A1A) XP[®] Rabbit mAb



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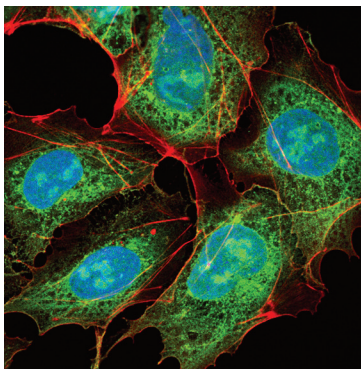
Applications W, IF-IC, F Endogenous	Species Cross-Reactivity* H, M, (R, Mk)	Molecular Wt. 28 kDa	Isotype Rabbit IgG**
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Background: LIN28A and LIN28B are conserved, developmentally regulated RNA binding proteins that inhibit the processing and maturation 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 LIN28A and LIN28B are upregulated in primary human tumors and in human cancer cell lines, their overexpression directly correlating to downregulation of let-7 miRNAs (4). LIN28 genes are reported to be involved in primordial germ cell development and germ cell malignancy (5) and 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).

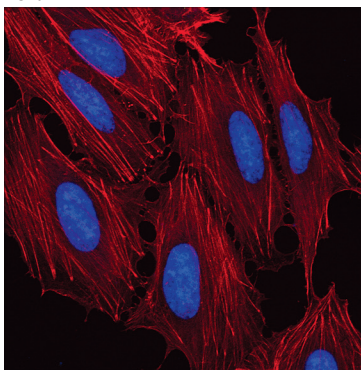
Specificity/Sensitivity: LIN28A (D1A1A) XP[®] Rabbit mAb recognizes endogenous levels of total LIN28A protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro201 of human LIN28A protein.

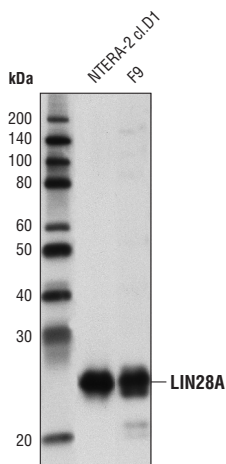
NTERA-2 cl.D1



HeLa



Confocal immunofluorescent analysis of NTERA-2 cl.D1 (left) and HeLa (right) cells using Lin28A (D1A1A) XP[®] Rabbit mAb (green). Actin filaments were labeled with DyLight[™] 554 Phalloidin #13054 (red). Blue pseudocolor = DRAQ5[®] #4084 (fluorescent DNA dye).



Western blot analysis of extracts from NTERA-2 cl.D1 and F9 cells using LIN28A (D1A1A) XP[®] Rabbit mAb.

Entrez-Gene ID #79727
UniProt ID #Q9H9Z2

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

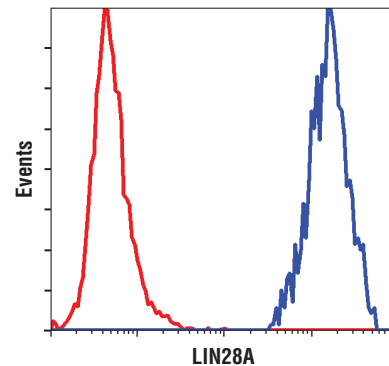
Western blotting	1:1000
Immunofluorescence (IF-IC)	1:400
Flow Cytometry	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

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



Flow cytometric analysis of HeLa (red) and NTERA-2 cl.D1 (blue) cells using LIN28A (D1A1A) XP[®] Rabbit mAb.

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

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.