

LIN28A (D1A1A) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)

✓ 100 µl
 (50 tests)



Orders ■ 877-616-CELL (2355)
 orders@cellsignal.com
Support ■ 877-678-TECH (8324)
 info@cellsignal.com
Web ■ www.cellsignal.com

New 05/13

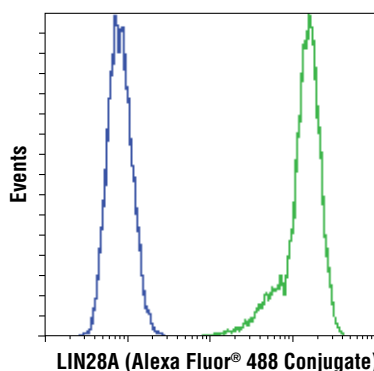
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Isotype
IF-IC, F Endogenous	H, M, (R, Mk)	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated LIN28A (D1A1A) XP® Rabbit mAb #8641.

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).

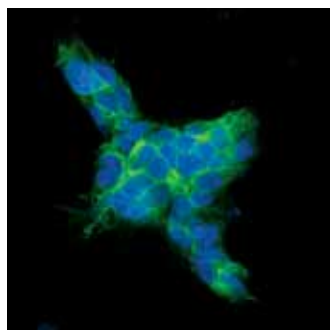
Specificity/Sensitivity: LIN28A (D1A1A) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total LIN28A protein.



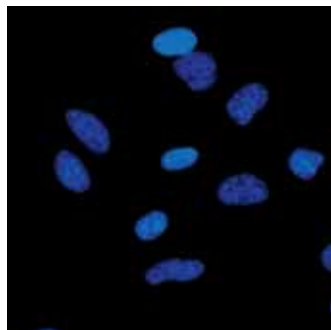
Flow cytometric analysis of HeLa (blue) and NTERA-2 cl.D1 (green) cells using LIN28A (D1A1A) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate).

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



Immunofluorescent analysis of NTERA-2 cl.D1 (left) and HeLa (right) cells using Lin28A (D1A1A) Rabbit mAb XP® (Alexa Fluor® 488 Conjugate) (green). Pseudocolor blue = DRAQ5® #4084 (fluorescent DNA dye).

Entrez-Gene ID #79727
 Swiss-Prot Acc. #Q9H9Z2

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Immunofluorescence (IF-IC)	1:200
Flow Cytometry	1:50

For product 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 complementary 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.

DRAQ5® is a registered trademark of Biostatus Limited.

Alexa Fluor® is a registered trademark of Molecular Probes, Inc.

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.