Revision 1

Store at +4C

#12573

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

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC, FC-FP	H M	Endogenous	Rabbit IgG	#Q9H9Z2	79727

Product Usage Information

Application	Dilution
Immunofluorescence (Immunocytochemistry)	1:400
Flow Cytometry (Fixed/Permeabilized)	1:50

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 antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

LIN28A (D1A1A) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes 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 residues surrounding Pro201 of human LIN28A protein.

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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse

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