LIN-28 (h2): 293T Lysate: sc-175922



The Power to Question

BACKGROUND

LIN-28 is a highly conserved, RNA-binding, cytoplasmic protein. It consists of a cold shock domain and retroviral-type (CCHC) zinc finger motifs that were first identified in *Caenorhabditis elegans*. LIN-28 controls the timing of events during embryonic development and is readily expressed in embryos, embryonic stem cells and embryonal carcinoma cells. The presence of LIN-28 persists in some adult tissues including cardiac and skeletal muscle. In differentiating myoblasts, LIN-28 increases protein sysnthesis efficiency and binds to the growth and differentiation factor IGF-II.

REFERENCES

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- 4. Yang, D.H. and Moss, E.G. 2003. Temporally regulated expression of LIN-28 in diverse tissues of the developing mouse. Gene Expr. Patterns 3: 719-726.
- Sempere, L.F., et al. 2004. Expression profiling of mammalian microRNAs uncovers a subset of brain-expressed microRNAs with possible roles in murine and human neuronal differentiation. Genome Biol. 5: R13.
- Wu, L. and Belasco, J.G. 2005. MicroRNA regulation of the mammalian LIN-28 gene during neuronal differentiation of embryonal carcinoma cells. Mol. Cell. Biol. 25: 9198-9208.
- 7. Guo, Y., et al. 2006. Identification and characterization of LIN-28 homolog B (LIN-28B) in human hepatocellular carcinoma. Gene 384: 51-61.

CHROMOSOMAL LOCATION

Genetic locus: LIN28A (human) mapping to 1p36.11.

PRODUCT

LIN-28 (h2): 293T Lysate represents a lysate of human LIN-28 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

LIN-28 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive LIN-28 antibodies. Recommended use: 10-20 µl per lane.

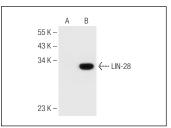
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LIN-28 (C-9): sc-374460 is recommended as a positive control antibody for Western Blot analysis of enhanced human LIN-28 expression in LIN-28 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz $^{\circ}$ Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



LIN-28 (C-9): sc-374460. Western blot analysis of LIN-28 expression in non-transfected: sc-117752 (**A**) and human LIN-28 transfected: sc-175922 (**B**) 293T whole cell bestere

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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