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LIN-28 (m): 293T Lysate: sc-125546

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 synthesis efficiency and binds to the growth and differentiation factor IGF-II.

REFERENCES

1. Moss, E.G., Lee, R.C. and Ambros, V. 1997. The cold shock domain protein LIN-28 controls developmental timing in *C. elegans* and is regulated by the LIN-4 RNA. *Cell* 88: 637-646.
2. Seggerson, K., Tang, L. and Moss, E.G. 2002. Two genetic circuits repress the *Caenorhabditis elegans* heterochronic gene LIN-28 after translation initiation. *Dev. Biol.* 243: 215-225.
3. Moss, E.G. and Tang, L. 2003. Conservation of the heterochronic regulator LIN-28, its developmental expression and microRNA complementary sites. *Dev. Biol.* 258: 432-442.
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.
5. Sempere, L.F., Freemantle, S., Pitha-Rowe, I., Moss, E., Dmitrovsky, E. and Ambros, V. 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.
6. 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., Chen, Y., Ito, H., Watanabe, A., Ge, X., Kodama, T. and Aburatani, H. 2006. Identification and characterization of LIN-28 homolog B (LIN-28B) in human hepatocellular carcinoma. *Gene* 384: 51-61.
8. Morita, K. and Han, M. 2006. Multiple mechanisms are involved in regulating the expression of the developmental timing regulator LIN-28 in *Caenorhabditis elegans*. *EMBO J.* 25: 5794-5804.
9. Poleskaya, A., Cuvellier, S., Naguibneva, I., Duquet, A., Moss, E.G. and Harel-Bellan, A. 2007. LIN-28 binds IGF-II mRNA and participates in skeletal myogenesis by increasing translation efficiency. *Genes Dev.* 21: 1125-1138.

CHROMOSOMAL LOCATION

Genetic locus: Lin28 (mouse) mapping to 4 D3.

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.

PRODUCT

LIN-28 (m): 293T Lysate represents a lysate of mouse LIN-28 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

LIN-28 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse 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.

PROTOCOLS

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